biolab

MANUAL
13th edition

FOR SPLENDID ISOLATION

Certificate

Standard **ISO 9001:2008**

Certificate Registr. No. **75 100 10307**

TÜV Rheinland InterCert Kft. certifies:

Certificate Holder: **BIOLAB Diagnosztikai Laboratórium Zrt.**
Öv utca 43.
H - 1141 Budapest
Hungary

Scope: production and distribution of microbiological culture media and microbiological plastic disposables.

An audit was performed. Proof has been furnished that the requirements according to ISO 9001:2008 are fulfilled.

Validity: The certificate is valid from **2012.06.12** until **2015.06.11**.
First certification: 2009.

Budapest, 2012.06.20.

TÜV Rheinland InterCert Kft.
H-1132 Budapest, Váci út 48/a-b
www.tuv.hu

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TÜVRheinland®
Precisely Right.

Dear Inquirer!

You are holding the Dehydrated Culture Media Manual of BIOLAB Inc., the leading Hungarian manufacturer and distributor of microbiological products. As a result of our 23 years of continuous development, you can find over 500 products on the following pages. We hope that you will find all necessary information for preparing media.

Our products are manufactured under ISO 9001:2008 quality assurance system and CE marked.

Culture media of Biolab Inc. are manufactured by the newest technology. The extreme stability of the products is assured by the careful choice of top quality raw materials and the multi-level quality control procedures.

This manual is divided into three parts:

Budapest, 2nd November, 2013

For further information please contact our Export Department:

I. RAW MATERIALS

BACTERIOLOGICAL AGAR

Bacteriological agar is a gelling agent used in the preparation of culture media and other bacteriological applications. Its main advantage is the absence of inhibitors, which could hinder optimal development of micro-organisms. In addition, bacteriological agar also possesses other attributes such as transparency, high hysteresis and very reliable reproducibility.

Code Number:	**BAA10500, BAA11000**
Appearance:	**White cream powder**

Physico-chemical characteristics

	Standard
Sieve analysis (ASTM) On Mesh 60	Pass
Gel strength (Nikkan) after autoclaving	800 - 950 g/cm^2
Loss on drying	<12 %
Total ashes	<5 %
pH (1,5% solution) gel after autoclaving	6 - 7.5
Nephelos after autoclaving	<12 NTU
Gelling point	33 - 37 °C
Melting point	85 - 95 °C

Microbiology

	Standard
Total aerobe microbial count	<100/g
Viable spores	<10/g

BACTERIOLOGICAL PEPTONE

It is obtained by the enzymatic digestion of animal proteins and has a wide applications as ingredient of routine media.

Code Number:	**BAP10500, BAP11000**
Appearance:	**Fine cream powder easily soluble in water**

Physico-chemical characteristics

Standard	
Solubility in water 2%	Complete
pH (2% solution)	6.5 - 7.5
Loss on drying	≤6.0 %
Total nitrogen TN	12 - 14 %
α-amino nitrogen AN	3.0 - 4.0 %
AN/TNx100	25-28
Residue on ignition	≤17 %
Chloride (NaCl)	≤6 %

Microbiology

Standard	
Total aerobe microbial count	≤10 000/g
Coliforms	≤10/g
Escherichia coli	Absence/10 g
Salmonella	Absence/25 g
Yeasts and moulds	≤20/g

Storage: Keep in cool and dry area. Avoid heat and moisture. Hygro-scopic product.

BACTERIOLOGICAL BILE

Purified ox bile is prepared by purification of raw ox bile in order to remove the substances which can interfere with the application in bacteriology.
It is used in culture media because of its inhibitory properties of Gram-positive micro-organisms, enabling the growth of different groups of bac-teria, such as coliforms, salmonellae and enterococci.

Code Number:	**BBI10100, BBI10500**
Appearance:	**Greenish brown powder easily soluble in water**

Physico-chemical characteristics

	Standard
Solubility in water 2%	Complete
pH (2% solution)	5 - 7
Loss on drying	<6 %
Total nitrogen TN	40-50 %
Residue on ignition	≤20 %

Microbiology

	Standard
Total aerobe microbial count	≤1 000/g

Storage: Keep in cool and dry area. Avoid heat and moisture. Hygro-scopic product.

BILE SALT No.3

Bile salt No.3 is prepared by refinement of bile salt in order to demand for use as a selective inhibitory agent.

Code Number:	**BBS10100, BBS10500**
Appearance:	**White free-flowing powder**

Physico-chemical characteristics

Standard	
Solubility in water 2%	Clear at 20 °C
pH (5% solution)	8,0-9,0
Loss on drying	≤4 %

Microbiology

Standard	
Total aerobe microbial count	≤1 000/g

Storage conditions: Keep in cool and dry area. Avoid heat and moisture. Hygroscopic product.

CASEIN PEPTONE

It is obtained by prolonged pancreatic digestion of the casein, in order to provide a large content of free amino-acids and small peptides.

Code Number:	**CAP10500, CAP11000**
Appearance:	**Fine cream powder easily soluble in water**

Physico-chemical characteristics

	Standard
Solubility in water 2%	Complete
pH (5% solution)	6.5 - 7.5
Loss on drying	≤6.0 %
Total nitrogen TN	12.2 - 13.2 %
α-amino nitrogen AN	3.0 - 4.0 %
AN/TNx100	25 - 31
Residue on ignition	≤17 %
Chloride (NaCl)	≤6 %

Microbiology

	Standard
Total aerobe microbial count	≤10 000/g
Coliforms	≤10/g
Escherichia coli	Absence/10 g
Salmonella	Absence/25 g
Staphylococcus aureus	Absence/10 g
Yeasts and moulds	≤20/g

Storage: Keep in cool and dry area. Avoid heat and moisture. Hygroscopic product.

MALT EXTRACT

Malt extract is prepared by means of purification steps in order to achieve a product showing clear solution. It is rich in carbohydrates, mainly maltose.
It is intended for the culture of yeasts and moulds.

Code Number:	**MAE10500, MAE11000**
Appearance:	**Fine cream powder easily soluble in water**

Physico-chemical characteristics

Standard	
Solubility in water 2%	Complete
pH (5% solution)	5 - 6
Loss on drying	≤4.5 %
Total nitrogen	≤70 %
Reducing sugars	≤80 %
Residue on ignition	≥3 %

Microbiology

Standard	
Total aerobe microbial count	≤10 000/g
Escheria coli	Absence/10 g
Salmonella	Absence/25 g
Yeasts and moulds	≤20/g

Storage: Keep in cool and dry area. Avoid heat and moisture. Hygroscopic product.

GELATIN PEPTONE

Gelatin peptone is manufactured by pancreatic digestion of pork gelatin. Because of the amino-acid composition of the gelatin, the peptone provide high level of proline and hydroxyproline but does not contain tryptophan.
Gelatin peptone shows relatively low growth promotion properties and it is designed for non fastidious bacteria. It is compatible with phosphates and it is often used in combination with other peptones in the media formulation.

Code Number:	**GEP10500, GEP11000**
Appearance:	**Fine cream powder easily soluble in water**

Physico-chemical characteristics

	Standard
Solubility in water 2%	Complete
pH (2% solution)	6.5 - 7.5
Loss on drying	≤3.5 %
Total nitrogen TN	14 - 16 %
α-amino nitrogen AN	2.4 - 3.4 %
AN/TNx100	17 - 23
Residue on ignition	≤10 %

Microbiology

	Standard
Total aerobe microbial count	≤2600cfu/g
Coliforms	≤10/g
Escherichia coli	Absence/10g
Salmonella	Absence/25g
Staphylococcus aureus	Absence/10g
Yeasts and moulds	≤100cfu/g

Storage: Keep in cool and dry area. Avoid heat and moisture. Hygroscopic product.

MEAT EXTRACT

Meat extract is manufactured by a controlled enzymatic hydrolysis of beef.

Use: Source of organic nitrogen and growth factors recommended in media for:
– Analytical microbiology
– Industrial fermentation

Code Number:	**MEE10500, MEE11000**
Appearance:	**Fine beige powder easily soluble in water**

Physico-chemical characteristics

Standard	
Solubility in water 2%	Complete
pH (2% solution)	5.5-6.5
Loss on drying	≤7 %
Total nitrogen TN	≤14.4 %
α-amino nitrogen AN	3.5 - 4.5 %
AN/TNx100	24-31
Residue on ignition	≤18.0 %
Protein	≤90 %

Microbiology

Standard	
Total aerobe microbial count	≤10 000/g
Coliforms	≤10/g
Escheria coli	Absence/10 g
Salmonella	Absence/25 g
Staphylococcus aureus	Absence/10 g
Yeasts and moulds	≤20/g

Storage: Keep in cool and dry area. Avoid heat and moisture. Hygroscopic product.

MEAT PEPTONE (PEPSIN DIGESTED)

Meat peptone (pepsin digested) is manufactured by enzymatic hydrolysis of selected fresh meat. Its good promotion properties make it suitable for the cultures of aerobeand anaerobebacteria. It is commonly used for production of toxins from micro-organisms such as *Corynebacterium* and *Clostridium* spp.

Code Number:	**MPE10500, MPE11000**
Appearance:	**Fine beige powder easily soluble in water**

Physico-chemical characteristics

	Standard
Solubility in water 2%	Complete
pH (2% solution)	6.0 - 7.5
Loss on drying	≤5 %
Total nitrogen TN	12 - 13 %
α-amino nitrogen AN	3.8 - 4.8 %
AN/TNx100	29 - 40
Residue on ignition	≤15 %

Microbiology

	Standard
Total aerobe microbial count	≤10 000/g
Coliforms	≤10/g
Escherichia coli	Absence/10 g
Salmonella	Absence/25 g
Yeasts and moulds	≤20/g

Storage: Keep in cool and dry area. Avoid heat and moisture. Hygroscopic product.

PROTEOSE PEPTONE

Proteose peptone is manufactured by enzymatic hydrolysis of selected fresh meat and animal tissue. Its special formulation enhances the growth properties and makes it very suitable ingredient in the media intended for the productions of bacterial toxins (*Corynebacterium diphtheriae*) as well as in the media for the cultivation of a variety of bacteria having different nutritive needs (gonococci, pneumococci, streptococci, staphylococci).

Code Number:	**PRP10500, RPR11000**
Appearance:	**Fine cream powder easily soluble in water**

Physico-chemical characteristics

Standard	
Solubility in water 2%	Complete
pH (2% solution)	6 - 7
Loss on drying	≤5 %
Total nitrogen TN	12.1 - 13.2 %
α-amino nitrogen AN	3.5 - 4.5 %
AN/TNx100	29 - 37
Residue on ignition	≤18 %

Microbiology

Standard	
Total aerobe microbial count	≤10 000/g
Coliforms	≤10/g
Escherichia coli	Absence/10 g
Salmonella	Absence/25 g
Yeasts and moulds	≤20/g

Storage: Keep in cool and dry area. Avoid heat and moisture. Hygroscopic product.

MYCOLOGICAL PEPTONE

Mycological peptone was developed specifically for the culturing and isolation of pathogenic and non pathogenic fungi. This product rapidly gives a luxuriant growth with typical morphology and pigmentation.

Code Number:	**FUP10500, FUP11000**
Appearance:	**Fine beige powder easily soluble in water**

Physico-chemical characteristics

	Standard
Solubility in water 2%	Complete
pH (5% solution)	6.0-7.0
Loss on drying	≤5 %
Total nitrogen TN	10-12.5 %
α-amino nitrogen AN	3,8-5 %
AN/TNx100	30-50
Residue on ignition	≤15 %

Microbiology

	Standard
Total aerobe microbial count	≤10 000/g
Coliforms	≤10/g
Escherichia coli	Absence – 10/g
Salmonella	Absence – 25/g
Yeasts and moulds	≤20/g

Storage conditions: Keep in cool and dry area. Avoid heat and moisture. Hygroscopic product.

SOYA PEPTONE

Soya peptone is manufactured by papaic hydrolysis of defatted soya flour. It shows very high nutritive properties, providing with a rapid vigorous growth of usual micro-organisms, including yeasts and moulds. It contains high content of carbohydrates and therefore it is not suitable for studying sugar fermentation.

Code Number:	**SOP10500, SOP11000**
Appearance:	**Fine beige powder easily soluble in water**

Physico-chemical characteristics

Standard	
Solubility in water 2%	Complete
pH (5% solution)	6 - 7
Loss on drying	≤5 %
Total nitrogen TN	9.5 - 11.0 %
α-amino nitrogen AN	2.2 - 3.2 %
AN/TNx100	20 - 34
Residue on ignition	≤15 %

Microbiology

Standard	
Total aerobe microbial count	≤10 000/g
Coliforms	≤10/g
Escherichia coli	Absence/10 g
Salmonella	Absence/25 g
Staphylococcus aureus	Absence/10 g
Yeasts and moulds	≤20/g

Storage: Keep in cool and dry area. Avoid heat and moisture. Hygroscopic product.

TRYPTONE

Tryptone is manufactured by controlled enzymatic (tryptic) hydrolysis of casein.

Use: Source of organic nitrogen recommended in media for:
– Analytical microbiology
– Industrial fermentation

Code Number:	**TRP10500, TRP11000**
Appearance:	**Fine cream powder easily soluble in water**

Physico-chemical characteristics

	Standard
Solubility in water 2%	Complete
pH (2% solution)	6.5-7.5
Loss on drying	≤5.0 %
Total nitrogen TN	12.1 - 13.1 %
α-amino nitrogen AN	5.5 - 6.5 %
AN/TNx100	42 - 54
Residue on ignition	≤15 %

Microbiology

	Standard
Total aerobe microbial count	≤10 000/g
Coliforms	≤10/g
Escherichia coli	Absence/10 g
Salmonella	Absence/25 g
Staphylococcus aureus	Absence/10 g
Yeasts and moulds	≤20/g

Storage: Keep in cool and dry area. Avoid heat and moisture. Hygroscopic product.

TRYPTOSE

It is a blend of peptones prepared from animal tissues and protein of animal origin, suitable for the media intended for culture of *Streptococcus* and other delicate micro-organisms. Owing to the nutritive properties of its composition Tryptose shows good performances in the isolation and culture of fastidious strains.

Code Number:	**TRY10500, TRY11000**
Appearance:	**Fine cream powder easily soluble in water**

Physico-chemical characteristics

	Standard
Solubility in water 2%	Complete
pH (2% solution)	6.5 - 7.5
Loss on drying	≤5 %
Total nitrogen TN	11.5 - 13.0 %
α-amino nitrogen AN	4 - 5 %
AN/TNx100	31 - 43
Residue on ignition	≤20 %

Microbiology

	Standard
Total aerobe microbial count	≤10 000/g
Coliforms	Absence/10 g
Salmonella	Absence/10 g
Yeasts and moulds	Absence/0,1 g

Storage: Keep in cool and dry area. Avoid heat and moisture. Hygroscopic product.

YEAST EXTRACT

Yeast extract is obtained by autolysis of the cells (enzymatic digestion by its own enzymes) of *Saccharomyces cerevisiae*. Therefore the resulting extract consists of amino-acids, oligo-peptides, carbohydrates, vitamins and purine and pyrimidine basis from nucleic acids. This natural composition of yeast extract, rich in growing factors, make it a widely used ingredient for improving the growth promotion properties of the media. The high content of carbohydrates cannot be used in media designed for sugar fermentation.

Code Number:	**YEE10500, YEE11000**
Appearance:	**Fine pale-yellow powder easily soluble in water**

Physico-chemical characteristics

	Standard
Solubility in water 2%	Complete
pH (2% solution)	6.4 - 7.4
Loss on drying	≤3.5
Total nitrogen TN	8.0 - 10.5 %
α-amino nitrogen AN	2.5 - 4.0 %
AN/TNx100	24 - 50
Residue on ignition	≤18 %

Microbiology

	Standard
Total aerobe microbial count	≤5 000/g
Coliforms	≤10/g
Escherichia coli	Absence/10 g
Salmonella	Absence/25 g
Staphylococcus aureus	Absence/10 g
Yeasts and moulds	≤100/g

Storage: Keep in cool and dry area. Avoid heat and moisture. Hygroscopic product.

II. DEHYDRATED CULTURE MEDIA

2.1. Culture media according to pharmacopoeias

A. PharmaBio® culture media

The **PharmaBio®** product range includes excellent quality culture media according to the pharmacopoeias. All these items are provided only after strict tests which are conducted according to the pharmacopoeias' requirements. Certificates of analysis contain these test results. See their descriptions in the alphabetical list of media (2.2.).

B. Culture media for the method of the European Pharmacopoeia

BROTH MEDIUM A (CASEIN SOYA-BEAN DIGEST BROTH)

See: Tryptone Soya Broth, PH EUR - USP

AGAR MEDIUM B (CASEIN SOYA-BEAN DIGEST AGAR)

See: Tryptone Soya Agar, PH EUR - USP

AGAR MEDIUM C (SABOURAUD GLUCOSE AGAR WITH CHLORAMPHENICOL)

See: Sabouraud Chloramphenicol Agar, PH EUR

BROTH MEDIUM D (LACTOSE BROTH)

See: Lactose Broth, PH EUR

BROTH MEDIUM E (ENTEROBACTERIA ENRICHMENT BROTH, MOSSEL)

See: EE Broth, PH EUR - USP

AGAR MEDIUM F (CRYSTAL VIOLET NEUTRAL RED BILE AGAR WITH GLUCOSE)

See: Violet Red Bile Glucose Agar, PH EUR

BROTH MEDIUM G (MACCONKEY BROTH)

See: MacConkey Broth, PH EUR - USP

AGAR MEDIUM H (MACCONKEY AGAR)

See: MacConkey Agar, PH EUR - USP

BROTH MEDIUM I (TETRATHIONATE BILE BRILLIANT GREEN BROTH)

See: Tetrathionate Broth Base, PH EUR

AGAR MEDIUM J (DESOXYCHOLATE CITRATE AGAR)

See: Deoxycholate Citrate Agar, PH EUR

AGAR MEDIUM K (XYLOSE LYSINE DEOXYCHOLATE AGAR)

See: XLD Agar, PH EUR - USP

AGAR MEDIUM L (BRILLIANT GREEN PHENOL RED LACTOSE SUCROSE AGAR)

See: Brilliant Green (BPLS) Agar, PH EUR

AGAR MEDIUM M (TSI AGAR)

See: Triple Sugar Iron (TSI) Agar, PH EUR

AGAR MEDIUM N (CETRIMIDE AGAR BASE)

See: Cetrimide Agar Base, PH EUR - USP

AGAR MEDIUM O (BAIRD-PARKER AGAR BASE)

See: Baird-Parker Agar Base, PH EUR

MEDIUM P (REINFORCED MEDIA FOR CLOSTRIDIA)

See: Reinforced Clostridial (RCM-DRCM) Medium Base, PH EUR - USP

AGAR MEDIUM Q (COLUMBIA AGAR)

See: Columbia Agar, PH EUR - USP

BROTH MEDIUM R (LACTOSE SULPHITE BROTH BASE)

See: Lactose Sulphite Broth Base, PH EUR

AGAR MEDIUM S (R2A AGAR)

See: R2A Agar, PH EUR

BUFFERED SODIUM CHLORIDE PEPTONE SOLUTION PH 7.0

See: Peptone Water, Buffered, PH EUR - USP

FLUID THIOGLYCOLLATE MEDIUM FOR STERILITY TESTING

See: Thioglycollate Medium, PH EUR

NEUTRALISING FLUID BASE

See: Neutralising Fluid Base, PH EUR

C. Culture media for the method of the United States Pharmacopoeia

CASEIN PEPTONE LECITHIN POLYSORBATE BROTH BASE, USP

See: Casein Peptone Lecithin Polysorbate Broth Base, USP

EOSIN METHYLENE BLUE AGAR, USP

See: Eosin Methylene Blue Agar, USP

KING A AGAR, USP

See: King A Agar Base, USP

KING B AGAR, USP

See: King B Agar Base, USP

SELENITE-CYSTINE BROTH BASE, USP

See: Selenite Cystine Broth Base, USP

TETRATIONATE BROTH BASE, USP

See: Tetrationate Broth Base, USP

VOGEL-JOHNSON AGAR, USP

See: Vogel-Johnson Agar Base, USP

D. Culture media for the harmonised method

BUFFERED SODIUM CHLORIDE PEPTONE SOLUTION pH 7.0

See: Peptone Water, Buffered, PH EUR - USP

CASEIN SOYA BEAN DIGEST AGAR

See: Tryptone Soya Agar, PH EUR - USP

CASEIN SOYA BEAN DIGEST BROTH

See: Tryptone Soya Broth, PH EUR - USP

CETRIMIDE AGAR

See: Cetrimide Agar Base, PH EUR - USP

COLUMBIA AGAR

See: Columbia Agar, PH EUR - USP

ENTEROBACTERIA ENRICHMENT BROTH, MOSSEL

See: EE Broth, PH EUR - USP

MACCONKEY AGAR

See: MacConkey Agar, PH EUR - USP

MACCONKEY BROTH

See: MacConkey Broth, PH EUR - USP

MANNITOL SALT AGAR

See: Mannitol Salt Agar, PH EUR - USP

POTATO DEXTROSE AGAR

See: Potato Dextrose Agar, PH EUR - USP

RAPPAPORT VASSILIADIS SALMONELLA ENRICHMENT BROTH

See: Rappaport Vassiliadis Broth Base, PH EUR - USP

REINFORCED MEDIUM FOR CLOSTRIDIA

See: Reinforced Clostridial (RCM-DRCM) Medium Base, PH EUR - USP

SABOURAUD DEXTROSE AGAR

See: Sabouraud Dextrose (4%) Agar, PH EUR - USP

SABOURAUD DEXTROSE BROTH

See: Sabouraud Dextrose Broth, PH EUR - USP

VIOLET RED BILE GLUCOSE AGAR

See: Violet Red Bile Glucose Agar, PH EUR - USP

XYLOSE, LYSINE, DEOXYCHOLATE AGAR

See: XLD Agar, PH EUR - USP

2.2. Alphabetical list of media

CULTURE MEDIA FOR AMINO ACID DECOMPOSITION STUDIES

Differential media for the differentiation of micro-organisms on the basis of their ability to decompose (decarboxylate or dehydrolysate) the amino acids.

Code Number:	**See below**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**

Direction: Suspend the indicated amount of dehydrated media listed below in one litre of distilled water.
In case of bases add the appropriate amount of amino acid (in case of Moeller Medium 10 g, in case of Falkow and Taylor media 5 g). Mix well and heat gently to dissolve the medium completely. Check the pH and readjust if it is necessary.
Dispense aseptically into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. After inoculation overlie the tubes aseptically with 4-5 mm sterile mineral oil (except Taylor Broth).
Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Moeller Broth Base

Code Number	**DBM20500**
Peptone	10,500
Glucose	0,500
Pyridoxal	0,005
Bromocresol purple	0,010
Cresol red	0,005

11 g/l pH = 5,9 - 6,3

Falkow Broth Base

Code Number	**DBF20500**
Peptone	8,00
Glucose	1,00
Bromocresol purple	0,02

9 g/l pH = 6,6 - 7,0

Taylor Broth Base

Code Number	**DBT20500**
Yeast extract	3,000
Glucose	1,000
Bromocresol purple	0,016

4 g/l pH = 5,9 - 6,3

Moeller Broth, Arginine

Code Number	**DBM20500-AR**
Peptone	10,500
Glucose	0,500
L-Arginine	10,000
Pyridoxal	0,005
Bromocresol purple	0,010
Cresol red	0,005

21 g/l pH = 5,9 - 6,3

Falkow Broth, Arginine

Code Number	**DBF20500-AR**
Peptone	8,00
Glucose	1,00
L-Arginine	5,00
Bromocresol purple	0,02

14 g/l pH = 6,6 - 7,0

Taylor Broth, Arginine

Code Number	**DBT20500-AR**
Yeast extract	3,000
Glucose	1,000
L-Arginine	5,000
Bromocresol purple	0,016

9 g/l pH = 5,9 - 6,3

Moeller Broth, Lysine

Code Number	**DBM20500-LY**
Peptone	10,500
Glucose	0,500
L-Lysine	10,000
Pyridoxal	0,005
Bromocresol purple	0,010
Cresol red	0,005

21 g/l pH = 5,9 - 6,3

Falkow Broth, Lysine

Code Number	**DBF20500-LY**
Peptone	8,00
Glucose	1,00
L-Lysine	5,00
Bromocresol purple	0,02

14 g/l pH = 6,6 - 7,0

Taylor Broth, Lysine

Code Number	**DBT20500-LY**
Yeast extract	3,000
Glucose	1,000
L-Lysine	5,000
Bromocresol purple	0,016

9 g/l pH = 5,9 - 6,3

Moeller Broth, Ornithine

Code Number	**DBM20500-OR**
Peptone	10,500
Glucose	0,500
L-Ornithine	10,000
Pyridoxal	0,005
Bromocresol purple	0,010
Cresol red	0,005

21 g/l pH = 5,9 - 6,3

Falkow Broth, Ornithine

Code Number	**DBF20500-OR**
Peptone	8,00
Glucose	1,00
L-Ornithine	5,00
Bromocresol purple	0,02

14 g/l pH = 6,6 - 7,0

Taylor Broth, Ornithine

Code Number	**DBT20500-OR**
Yeast extract	3,000
Glucose	1,000
L-Ornithine	5,000
Bromocresol purple	0,016

9 g/l pH = 5,9 - 6,3

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Proteus vulgaris*

References: Moeller (1955) Acta. Path. Microbiol. Scand. 36: 158.
Falkow (1958) Amer. J. Clin. Path. 29: 598.
Taylor (1961) Appl. Microbiol. 9: 487.

A-1 BROTH BASE

A non-selective medium for the detection of coliform micro-organisms.

Code Number:	**A1B20500, A1B25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,9 (approx.) at 25 °C**

Direction: Suspend 31 g in one litre of distilled water. Add 1 ml of Triton X-100 Supplement (TXS80100). Mix well and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,5
Lactose	5,0
Salicin	0,5
Sodium chloride	5,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Pseudomonas aeruginosa*

References: Andrews and Presnell (1972) Appl. Microbiol. 23: 521.

ACETAMIDE BROTH

A synthetic differential medium for the enrichment and differentiation of *Pseudomonas aeruginosa*.

Code Number:	**ACB20500, ACB25000**
Colour:	**White**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 3,4 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Acetamide	2
Sodium chloride	0,2
Magnesium sulphate	0,2
Sodium molybdate	0,005
Ferrous sulphate	0,0005
Buffers	1

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Pseudomonas aeruginosa*
Negative control: *Escherichia coli*

References: ISO 12780: 2002

ACETATE DIFFERENTIAL AGAR

A synthetic differential medium for the differentiation of *Shigella* spp. from *Escherichia coli*.

Code Number:	**ADA20500, ADA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,9 (approx.) at 25 °C**

Direction: Suspend 29 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position.

Formula in g/l

Sodium acetate	2,00
Sodium chloride	5,00
Magnesium sulphate	0,20
Bromothymol blue	0,08
Buffers	2,00
Agar	19,80

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Sheigella sonnei*

References: Trabulsi and Ewing (1962) Public Health Lab. 20: 137.

AEROMONAS AGAR BASE

A selective medium for the isolation of *Aeromonas* spp.

Code Number:	**AEA20500, AEA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**8,0 (approx.) at 25 °C**

Direction: Suspend 30 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of Aeromonas Selective Supplement (AES80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	9,00
Bile salt	3,00
Xylose	3,75
Sorbitol	3,00
Lactose	1,50
Inositol	2,50
Sodium thiosulphate	10,87
Sodium chloride	5,00
Ferric ammonium citrate	0,80
L-Lysine	3,50
L-Arginine	2,00
Bromothymol blue	0,04
Thymol Blue	0,04
Agar	15,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Aeromonas hydrophila, Pseudomas aeruginosa*
Negative control: *Escherichia coli*

References: Havelaar et al. (1987) J. Appl. Bact. 62: 279.

ANAEROBE ISOLATION AGAR

A non-selective medium designed to give optimum growth of nutritionally exacting anaerobe micro-organisms.

Code Number:	**AIA20500, AIA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 46 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. If it is necessary to supplement with blood cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood. Mix well before pouring.

Formula in g/l

Nutrient substrate (peptones, extracts)	23,400
Glucose	1,000
Starch soluble	1,000
Sodium chloride	5,000
L-Arginine	0,500
L-Cysteine	0,500
Growth promoters	0,830
Vitamins	0,011
Buffers	0,760
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Bacteroides fragilis, Peptostreptococcus anaerobius*

ANAEROBE ISOLATION BROTH

A non-selective medium for the general growth of anaerobic organisms.

Code Number:	**AIB20500, AIB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 33 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Nutrient substrate (peptones, extracts)	23,400
Glucose	1,000
Starch soluble	1,000
Sodium chloride	5,000
L-Arginine	0,500
L-Cysteine	0,500
Growth promoters	0,830
Vitamins	0,011
Buffers	0,760

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Bacteroides fragilis, Peptostreptococcus anaerobius*

ANTIBIOTIC ASSAY MEDIA

Media for the microbiological assay of antibiotics according to USP and PH EUR.

Code Number:	**(A01 – A39)20500, (A01 – A39)25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**

Direction: Suspend the amount indicated below of dehydrated media in one litre of distilled water. Add the supplement, if necessary and heat with frequent agitation until the medium boils well (in case of agars), or heat gently to dissolve the medium completely (in case of broths). Sterilise by autoclaving at 121°C for 15 minutes.

MEDIUM 1

Peptone	6,0
Casein peptone	4,0
Yeast extract	3,0
Beef extract	1,5
Glucose	1,0
Agar	15,5

31 g/l pH = 6,5 – 6,7

MEDIUM 2

Peptone	6,0
Yeast extract	3,0
Beef extract	1,5
Agar	15,5

26 g/l pH = 6,5 – 6,7

MEDIUM 3

Peptone	5,0
Yeast extract	1,5
Beef extract	1,5
Glucose	1,0
Sodium chloride	3,5
Dipotassium hydrogen phosphate	3,68
Potassium dihydrogen phosphate	1,32

17,5 g/l pH = 6,9 – 7,1

MEDIUM 5

Peptone	6,0
Yeast extract	3,0
Beef extract	1,5
Agar	15,5

26 g/l pH = 7,8 – 8,0

MEDIUM 8

Peptone	6,0
Yeast extract	3,0
Beef extract	1,5
Agar	15,5

26 g/l pH = 5,8 – 6,0

MEDIUM 9

Casein peptone	17,0
Soya peptone	3,0
Glucose	2,5
Sodium chloride	5,0
Dipotassium hydrogen phosphate	2,5
Agar	20,0

50 g/l pH = 7,1 – 7,3

MEDIUM 10 BASE

Casein peptone	17,0
Soya peptone	3,0
Glucose	2,5
Sodium chloride	5,0
Dipotassium hydrogen phosphate	2,5
Agar	12,0

42 g/l + 10 ml/l TWEEN 80 Supplement (TWS80100) pH = 7,1 – 7,3

MEDIUM 11

Peptone	6,0
Casein peptone	4,0
Yeast extract	3,0
Beef extract	1,5
Glucose	1,0
Agar	15,5

31 g/l pH = 8,2 – 8,4

MEDIUM 12

Peptone	6,0
Casein peptone	4,0
Yeast extract	3,0
Beef extract	1,5
Glucose	1,0
Agar	15,5

31 g/l pH = 8,2 - 8,4

MEDIUM 13

Peptone	10
Glucose	20

30 g/l pH = 5,5 – 5,7

MEDIUM 19

Peptone	9,4
Yeast extract	4,7
Beef extract	2,4
Glucose	10,0
Sodium chloride	10,0
Agar	23,5

60 g/l pH = 6,0 – 6,2

MEDIUM 32

Peptone	6,0
Casein peptone	4,0
Yeast extract	3,0
Beef extract	1,5
Glucose	1,0
Manganese sulphate	0,3
Agar	15,2

31 g/l pH = 6,5 – 6,7

MEDIUM 34 BASE

Peptone	10
Beef extract	10
Sodium chloride	3

23 g/l + 10 ml/l Glycerol Supplement (GLC80100) pH = 6,9 – 7,1

MEDIUM 35 BASE

Peptone	10
Beef extract	10
Sodium chloride	3
Agar	17

40 g/l + 10 ml/l Glycerol Supplement (GLC80100) pH = 6,9 – 7,1

MEDIUM 36

Casein peptone	15
Soya peptone	5
Sodium chloride	5
Agar	15

40 g/l pH = 7,2 – 7,4

MEDIUM 39

Peptone	5,0
Yeast extract	1,5
Beef extract	1,5
Glucose	1,0
Sodium chloride	3,5
Dipotassium hydrogen phosphate	3,68
Potassium dihydrogen phosphate	1,32

17,5 g/l pH = 7,8 – 8,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C (plates) or at room temperature (tubes).

References: USP XXVI (1995) Chapter 'Biological Tests and Assays'
PH EUR II. Chapter VIII. 4.

APT AGAR BASE

A non-selective medium for the cultivation and enumeration of lactic acid bacteria.

Code Number:	**APT20500, APT25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,7 (approx.) at 25 °C**

Direction: Suspend 59 g in one litre of distilled water. Add 1ml of TWEEN 80 Supplement (TWS80100) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,000
Glucose	10,000
Sodium chloride	5,000
Sodium citrate	5,000
Magnesium sulphate	0,800
Manganese chloride	0,140
Ferrous sulphate	0,040
Thiamine HCl	0,001
Buffers	5,000
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Lactobacillus acidophilus*

References: Evans and Niven (1951) J. Bact. 62: 599.

NEW PRODUCT

APT BROTH BASE

A non-selective medium for the cultivation of lactic acid bacteria.

Code Number:	**APB20500, APB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,7 (approx.) at 25 °C**

Direction: Suspend 46 g in one litre of distilled water. Add 1 ml of TWEEN 80 Supplement (TWS80100). Mix well and heat gently to dis-solve the medium completely. Dispense into final containers and steril-ise by autoclaving at 121 °C for 15 minutes.

FORMULA in g/l

Peptones	20,000
Glucose	10,000
Sodium chloride	5,000
Sodium citrate	5,000
Magnesium sulphate	0,800
Manganese chloride	0,140
Ferrous sulphate	0,001
Thiamine HCl	0,001
Buffers	5,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Lactobacillus acidophilus*

References: Evans and Niven (1951) J. Bact. 62: 599.

ARGININE BROTH

A selective and differential medium for the cultivation of *Pseudomonas aeruginosa*.

Code Number:	**ARB20500, ARB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 35 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	19,50000
Glucose	0,50000
Sodium chloride	5,00000
L-Arginine	10,00000
Bromothymol blue	0,00750
Brilliant green	0,00038

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Pseudomonas aeruginosa*
Negative control: *Escherichia coli*

References: Schubert (1989) Zbl. Bakt. Hyg. B 187: 266.

ASPARAGINE BROTH BASE

A selective medium for the enumeration and detection of *Pseudomonas aeruginosa*.

Code Number:	**ASB20500, ASB25000**
Colour:	**White**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 4,5 g in one litre of distilled water. Add 8 ml of Glycerol Supplement (GLC80100). Mix well and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

DL Asparagine	3,0
Magnesium sulphate	0,5
Buffers	1,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Pseudomonas aeruginosa*
Negative control: *Escherichia coli*

References: APHA (1985) Standard Methods for the Examination of Water and Wastewater, 16th ed.

AZIDE DEXTROSE BROTH

A selective medium for the detection of enterococci.

Code Number:	**ADB20500, ADB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 35 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	19,8
Glucose	7,5
Sodium chloride	7,5
Sodium azide	0,2

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Escherichia coli*

References: Mallmann and Seligmann (1950) Am. J. Public Health 40: 286.

AZIDE DEXTROSE BROTH, ROTHE

A selective medium for the detection of enterococci.

Code Number:	**ADR20500, ADR25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 36 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	20,4
Glucose	5,0
Sodium chloride	5,0
Sodium azide	0,2
Buffers	5,4

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Escherichia coli*

References: Greenberg et al. (1985) APHA, Standard Methods for the Examination of Water and Wastewater, 16th ed.

BACILLUS CEREUS (PEMBA) AGAR BASE

A selective and differential medium for the isolation and enumeration of *Bacillus cereus.*

Code Number:	**BCA20500, BCA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 40 g in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of Sterile Egg Yolk Polymyxin (PEMBA) Emulsion (EYP80050-01). Mix well before pouring.

Formula in g/l

Peptones	1,00
Mannitol	10,00
Sodium pyruvate	10,00
Sodium chloride	2,00
Magnesium sulphate	0,10
Bromothymol blue	0,12
Buffers	2,75
Agar	14,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Bacillus cereus*
Negative control: *Bacillus subtilis, Escherichia coli*

References: Holbrook and Anderson (1980) Can. J. Microbiol. 26: 753.

BACILLUS CEREUS (PREP) AGAR BASE

A selective and differential medium for the isolation and enumeration of *Bacillus cereus.*

Code Number:	**BPR20500, BPR25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 46 g in 900 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 100 ml of Sterile Egg Yolk Polymyxin (PREP) Emulsion (EYP80100-02). Mix well before pouring.

Formula in g/l

Peptones	11,000
Mannitol	10,000
Sodium chloride	10,000
Phenol red	0,025
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Bacillus cereus*
Negative control: *Bacillus subtilis, Escherichia coli*

References: Mossel et al. (1967). Appl. Microbiol. 15: 650.

BACTEROIDES BILE ESCULIN AGAR

A selective and differential medium for the isolation and presumptive identification of *B. fragilis* group.

Code Number:	**BBE20500, BBE25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 62 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Anaerobe Isolation Agar	45,4
Bacteriological bile	15,0
Ferric citrate	0,5
Esculin	1,0
Gentamicin	0,1

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Bacteroides fragilis*
Negative control: *Escherichia coli, Clostridium perfringens*

References: Livingston et al. (1978) J. Clin. Microbiol. 7: 448.

BAGG BROTH BASE

A selective medium for the cultivation of faecal streptococci.

Code Number:	**BAG20500, BAG25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,9 (approx.) at 25 °C**

Direction: Suspend 36 g in one litre of distilled water. Add 5 ml of Glycerol Supplement (GLC80100). Mix well and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	20,000
Glucose	5,000
Sodium chloride	5,000
Sodium azide	0,500
Bromocresol purple	0,015
Buffers	5,500

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Streptococcus faecalis*
Negative control: *Escherichia coli*

References: Hajna (1951) Public Health Lab. 9: 80.

BAIRD-PARKER AGAR BASE, PH EUR

A selective and differential medium for the isolation and enumeration of *Staphylococcus aureus* according to PH EUR (Agar Medium 0).

Code Number:	**BPA20500, BPA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 60 g in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of Sterile Egg Yolk Tellurite Emulsion (EYT80050). Mix well before pouring.

Formula in g/l

Casein peptone	10
Beef extract	5
Yeast extract	1
Sodium pyruvate	10
Lithium chloride	5
Glycine	12
Agar	17

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Staphylococcus aureus*
Negative control: *Staphylococcus epidermidis, Escherichia coli*

References: European Pharmacopoeia 5.6

BAIRD-PARKER BROTH BASE

A selective and differential medium for the isolation and enumeration of *Staphylococcus aureus*.

Code Number:	**BBR20500, BBR25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 43 g in 950 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121°C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of Sterile Egg Yolk Tellurite Emulsion (EYT80050). Mix well and dispense aseptically into sterile final containers.

Formula in g/l

Peptone	16
Sodium pyruvate	10
Lithium chloride	5
Glycine	12

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Staphylococcus aureus*
Negative control: *Escherichia coli*

References: Baird-Parker (1962) J. Appl. Bact. 25: 12.

BAT AGAR

A selective medium for the detection of *Alicyclobacillus* spp.

Code Number:	**BTA20500, BTA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,2 (approx.) at 25 °C**

Direction: Suspend 29 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 115 °C for 15 minutes. If it is necessary to adjust the pH 4 (approx.) cool to 50 °C and add 1 n sulphuric acid (approx: 1,7 ml) to the agar.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.
Once acidified with sulphuric acid, the medium should not be re-heated.

Formula in g/l

Peptones	2,000
Glucose	5,000
Magnesium sulphate	0,500
Calcium chloride	0,250
Ammonium sulphate	0,200
Mixture of minerals	0,001
Buffers	3,000
Agar	18,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Alicyclobacillus acidoterrestris*
Negative control: *Escherichia coli, Staphylococcus aureus*

References: First Standard IFU-Method on the Detection of Alicyclobacillus in Fruit Juices. April 2003.

BILE ESCULIN AGAR

A selective and differential medium for the isolation and presumptive identification of enterococci and Group D streptococci.

Code Number:	**BEA20500, BEA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	8,5
Bacteriological bile	20,0
Ferric citrate	0,5
Esculin	1,0
Agar	15,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Streptococcus pyogenes*

References: Swan (1954) J. Clin. Pathol. 7: 160.

BILE ESCULIN AZIDE AGAR

A selective and differential medium for the isolation and presumptive identification of enterococci and Group D streptococci.

Code Number:	**BES20500, BES25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 55 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	25,30
Bacteriological bile	10,00
Sodium chloride	5,00
Ferric citrate	0,50
Sodium azide	0,15
Esculin	1,00
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Streptococcus pyogenes*

References: Swan (1954) J. Clin. Pathol. 7: 160.

BILE ESCULIN AZIDE BROTH

A selective and differential medium for the differentiation of enterococci and Group D streptococci.

Code Number:	**BIB20500, BIB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 43 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	25,25
Bacteriological bile	10,00
Sodium chloride	5,00
Sodium citrate	1,00
Ferric citrate	0,50
Sodium azide	0,25
Esculin	1,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Streptococcus pyogenes, Escherichia coli*

References: Isenberg et al. (1970) Appl. Microbiol. 20: 433.

BILE ESCULIN BROTH

A selective and differential medium for the differentiation of enterococci and Group D streptococci.

Code Number:	**BEB20500, BEB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 43 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	25,5
Bacteriological bile	10,0
Sodium chloride	5,0
Sodium citrate	1,0
Ferric citrate	0,5
Esculin	1,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Streptococcus pyogenes, Escherichia coli*

References: Isenberg et al. (1970) Appl. Microbiol. 20: 433.

BISMUTH SULPHITE AGAR BASE

A strongly selective medium for the isolation of salmonellae including *Salmonella typhi*.

Code Number:	**BSA20500, BSA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 30 g in 800 ml of distilled water and heat with fre-quent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool down and add aseptically 200 ml of Bismuth Sulphite Indicator (BSI81000). Mix well before pouring.

Warning!
– Before use warm up the indicator to room temperature carefully. The crystals precipitaded during chilled storage must be redissolved com-pletely. Several refrigeration – warm up process can not cause any demage.
– To ensure homogeneity shake well the indicator before use.
– The complete medium should be used on the day of preparation.

Formula for one litre of the complete medium

Peptones	14,700
Glucose	5,000
Ferrous sulphate	0,300
Bismuth sulphite indicator	6,000
Brilliant green	0,016
Buffers	5,000
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Salmonella typhi, Salmonella typhimurium*
Negative control: *Proteus mirabilis, Escherichia coli*

References: Wilson and Blair (1972) J. Hyg. Camb. 26: 374.

BLOOD AGAR BASE

A multi-purpose, non-selective medium for the cultivation of non-fastidious and fastidious micro-organisms.

Code Number:	**BAN20500, BAN25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 40 g in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood. Mix well before pouring.

Formula in g/l

Nutrient substrate (peptones, extracts)	22
Sodium chloride	5
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Streptococcus pyogenes, Streptococcus pneumoniae, Enterococcus faecalis*

References: APHA (1972) Comp. of Meth. for the Micr. Examin. of Foods, 3rd ed.

BLOOD AGAR BASE No.2

A modified blood agar possessing enhanced nutritional properties for the cultivation of fastidious and other micro-organisms.

Code Number:	**BAL20500, BAL25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 42 g in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood. Mix well before pouring.

Formula in g/l

Nutrient substrate (peptones, liver and other extracts)	24
Sodium chloride	5
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Streptococcus pyogenes, Streptococcus pneumoniae, Enterococcus faecalis*

References: FDA Bacteriological Analytical Manual (1992) 7th ed.

BLUE BROTH

A differential medium for the differentiation of lactose-positive micro-organisms from lactose-negative ones.

Code Number:	**BLB20500, BLB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 38 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10,00
Lactose	20,00
Sodium chloride	4,00
Potassium sulphate	2,00
Ammonium sulphate	1,00
Magnesium sulphate	0,50
Bromothymol blue	0,04
Buffers	0,50

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Lactose positive control: *Escherichia coli*
Lactose negative control: *Proteus mirabilis*

BLUE AGAR

A differential medium for the differentiation of lactose-positive micro-organisms from lactose-negative ones.

Code Number:	**BLU20500, BLU25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 48 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,000
Lactose	10,000
Sodium chloride	5,000
Bromothymol blue	0,045
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Lactose positive control: *Escherichia coli*
Lactose negative control: *Proteus mirabilis*

BOLTON BROTH BASE

A selective medium for the selective enrichment of campylobacters.

Code Number:	**BOB20500, BOB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 14 g in 470 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 25 ml of sterile lysed horse blood and the contents of one vial of Campylobacter Selective Supplement, Bolton (CBS80004) reconstituted with 4 ml of sterile distilled water. Mix well and dispense aseptically into sterile test tubes.

Formula in g/l

Peptones	21,00
Sodium chloride	5,00
Sodium metabisulphite	0,50
Sodium pyruvate	0,50
α-ketoglutaric acid	1,00
Haemin	0,01

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Campylobacter jejuni*
Negative control: *Escherichia coli*

References: FDA (1988) Bacteriological Analytical Manual, 8th ed.

RENEWED PRODUCT

BRAIN HEART INFUSION AGAR

A highly nutritious medium for the cultivation of fastidious micro-organisms.

Code Number:	**BHA20500, BHA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 50 g in one litre of distilled water and heat with fre-quent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Direction for Vancomycin Screen Agar: Suspend 25 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Vancomycin (3 mg) Supplement (VSS80004-03) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

FORMULA in g/l

Nutrient substrate (brain + heart infusion, peptones)	27,5
Glucose	2,0
Sodium chloride	5,0
Buffers	2,5
Agar	13,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Streptococcus pneumoniae*

Vancomycin Screen Agar:
Positive control: *Enterococcus faecalis ATCC51299*
Negative control: *Enterococcus faecalis ATCC29212*

References: Lenette at al. (1985) Manual of Clinical Microbiology, 4th ed.

BRILLIANT GREEN AGAR BASE, MODIFIED

A selective and differential medium for the isolation of salmonellae other than *S. typhi.*

Code Number:	**BGM20500, BGM25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**6,9 (approx.) at 25 °C**

Direction: Suspend 26,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool quickly to 50 °C and add aseptically the contents of one vial of Sulphamandelate Selective Supplement (SUS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	17,0000
Lactose	10,0000
Sucrose	10,0000
Phenol red	0,0800
Brilliant green	0,0047
Buffers	1,6000
Agar	14,4000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature at 2-8 °C.

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Escherichia coli, Proteus mirabilis, Enterococcus faecalis,*

References: Edel and Kampelmacher (1968) Bull. Wld. Hlth. Org. 39: 487.

BRAIN HEART INFUSION BROTH

A highly nutritious medium for the cultivation of fastidious micro-organisms.

Code Number:	**BHI20500, BHI25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 37 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Nutrient substrate (brain + heart infusion, peptones)	27,5
Glucose	2,0
Sodium chloride	5,0
Buffers	2,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Streptococcus pneumoniae*

References: Rosenow (1919) J. Dental Research 205.

BRILLIANT GREEN (BPLS) AGAR, PH EUR

A selective and differential medium for the isolation of salmonellae other than *S. typhi* according to PH EUR (Agar Medium L – Brilliant Green Phenol Red Lactose Sucrose Agar).

Code Number:	**BPE20500, BPE25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**6,9 (approx.) at 25 °C**

Direction: Suspend 58 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Cool quickly and pour into Petri-dishes immediately!

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	10,0000
Yeast extract	3,0000
Lactose monohydrate	10,0000
Sucrose	10,0000
Sodium chloride	5,0000
Phenol red	0,0800
Brilliant green	0,0125
Agar	20,0000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Escherichia coli, Proteus mirabilis, Enterococcus faecalis*

References: European Pharmacopoeia 5.6

BRILLIANT GREEN AGAR BASE, HUMAN

A selective medium for the isolation of salmonellae including *Salmonella typhi* from clinical specimens.

Code Number:	**BGH20500, BGH25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,3 (approx.) at 25 °C**

Direction: Suspend 21,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically one dose (0,5 ml) of Brilliant Green Solution, Sterile (BGS80030). Mix well before pouring.

Formula in g/l

Peptones	16,500
Lactose	10,000
Sucrose	1,000
Glucose	0,500
Acid fuchsin	0,080
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Salmonella typhi*
Negative control: *Escherichia coli, Proteus mirabilis, Enterococcus faecalis*

BRILLIANT GREEN BILE (2%) BROTH

A selective and differential medium for the detection of coliform micro-organisms.

Code Number:	**BBB20500, BBB25000**
Colour:	**Greenish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube. Sterilise by autoclaving at 115 °C for 15 minutes. Cool quickly!

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	10,0000
Bacteriological bile	20,0000
Lactose	10,0000
Brilliant green	0,0133

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.
Quality Control:
Positive control: *Escherichia coli, Enterobacter aerogenes*
Negative control: *Staphylococcus aureus*

References: APHA (1986) Standard Methods for the Examination of Water and Wastewater, 15th ed.

BROLAC AGAR

A differential medium for the differentiation of lactose-positive micro-organisms from lactose-negative ones.

Code Number:	**BRO20500, BRO25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	7,00
Lactose	15,00
Sodium chloride	5,00
Bromothymol blue	0,04
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Lactose positive control: *Escherichia coli*
Lactose negative control: *Salmonella typhimurium*

BROMOCRESOL PURPLE AZIDE BROTH

A selective medium for the confirmation of the presence of enterococci.

Code Number:	**BCB20500, BCB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 36 g in one litre of distilled water. Add 5 ml of Glycerol Supplement (GLC80100). Mix well and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	20,000
Glucose	5,000
Sodium chloride	5,000
Sodium azide	0,500
Bromocresol purple	0,032
Buffers	5,500

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Escherichia coli*

References: Hajna and Perry (1943) Am. J. Publ. Health. 3: 550.

BROMOCRESOL PURPLE GLUCOSE AGAR

A glucose containing differential medium for the differentiation and enumeration of Enterobacteriaceae.

Code Number:	**BPD20500, BPD25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 41,5 g in one litre of distilled water and heat with fre-quent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes

Formula in g/l

Peptones	11,500
Glucose	10,000
Sodium chloride	5,000
Bromocresol purple	0,015
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli*

References: ISO 21528-2: 2004

BROMOCRESOL PURPLE LACTOSE AGAR

A lactose containing differential medium for the isolation of coliforms.

Code Number:	**BPL20500, BPL25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 41,5 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	11,500
Lactose	10,000
Sodium chloride	5,000
Bromocresol purple	0,015
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Lactose positive control: *Escherichia coli*
Lactose negative control: *Salmonella typhimurium*

References: Lenette et al. (1985) Manual of Clinical Microbiology, 4th ed.

BRUCELLA AGAR BASE

A selective medium for the isolation of *Brucella* spp.

Code Number:	**BAB20500, BAB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,5 (approx.) at 25 °C**

Direction: Suspend 22,5 g in 460 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C. Add aseptically 4 ml of 1:1 mixture of methanol and sterile distilled water to one vial of Brucella Selective Supplement (BAS80004) to form suspension. Incubate for 15 minutes at 37 °C. Shake well and add immediately to the agar base together with 35 ml of sterile inactivated (i.e. serum held at 56 °C for 30 minutes) horse serum. Mix well before pouring.

Formula in g/l

Peptones	15
Glucose	10
Sodium chloride	5
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Brucella abortus*

References: Farell and Robinson (1972) J. Appl. Bact. 35: 625.

BRUCELLA BROTH

A non-selective medium for the cultivation of *Brucella* spp.

Code Number:	**BRB20500, BRB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 28 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	22,0
Glucose	1,0
Sodium chloride	5,0
Sodium sulphite	0,1

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Brucella abortus*

References: Alton and Jones (1968) La brucellose, technique de laboratoire Genéve: OMS

BRYANT-BURKEY BROTH

A selective medium for the cultivation of lactate fermenting *Clostridia* spp.

Code Number:	**BBA20500-M**
Packaging:	**300 g broth base + 200 g supplement**
Appearance – broth base:	**Yellowish, homogeneous, hygroscopic powder**
Appearance – supplement:	**White powder**
pH after autoclaving:	**5,9 (approx.) at 25 °C**

Direction: Suspend 19 g of supplement in one litre of distilled water and sterilise by autoclaving at 121 °C for 15 minutes. Cool to room temperature and filter the precipitate. Suspend 28 g of broth base in the filtrate and fill up the solution with distilled water to one litre. Adjust the pH to 6,0 ± 0,1. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Warning!
As the best result is expected in case of the freshly prepared lactate, carry out the two steps above successively.

Formula of ready medium in g/l

Peptones	27,5000
Sodium lactate	5,0000
Sodium acetate	5,0000
L-Cysteine	0,5000
Resazurin	0,0025

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but the best solution is to use it freshly.

Quality Control:
Positive control: *Clostridium perfringens*

References: Bryant and Burkey (1953) J. Dairy Science 23: 30.

CAMPYLOBACTER AGAR BASE

A selective medium for the isolation of campylobacters.

Code Number:	**CAA20500, CAA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,5 (approx.) at 25 °C**

Direction: Suspend 19 g in 470 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 25 ml of sterile lysed horse blood and the contents of one vial of Campylobacter Growth Supplement (CGS80004) reconstituted with 4 ml of sterile distilled water and one vial of Campylobacter Selective Supplement, Skirrow (CSS80004) reconstituted with 4 ml of sterile distilled water, or one vial of Campylobacter Selective Supplement, Preston (CPS80004) reconstituted with 4 ml of 1:1 mixture of acetone and sterile distilled water, or one vial of Campylobacter Selective Supplement, Blaser-Wang (CBW80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula in g/l

Peptones	20
Sodium chloride	5
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Campylobacter jejuni*
Negative control: *Escherichia coli*

References: Bolton and Robertson (1982) J. Clin. Pathol. 35: 462.

CAMPYLOBACTER AGAR BASE, KARMALI

A selective blood-free medium for the isolation of campylobacters.

Code Number:	**CAK20500, CAK25000**
Colour:	**Black**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 23 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Campylobacter Selective Supplement, Karmali (CPK80004), reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula in g/l

Columbia Blood Agar Base	42,000
Charcoal	4,000
Hemin	0,032

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Campylobacter jejuni*
Negative control: *Escherichia coli*

References: Karmali at al. (1986) J. Clin. Microbiol. 23: 456.

CAMPYLOBACTER BLOOD-FREE (CCDA) AGAR BASE

A selective blood-free medium for the isolation of campylobacters.

Code Number:	**CCA20500, CCA25000**
Colour:	**Black**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 24 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Campylobacter Selective Supplement, CCDA (CCS80004), reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula in g/l

Peptones	24,50
Sodium chloride	5,00
Sodium deoxycholate	1,00
Ferrous sulphate	0,25
Sodium pyruvate	0,25
Charcoal	4,00
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Campylobacter jejuni*
Negative control: *Escherichia coli*

References: Bolton et al. (1984) J. Clin. Microbiol. 19: 169.

CASEIN PEPTONE LECITHIN POLYSORBATE BROTH BASE, USP

An inactivating solution for diluting samples when determining microbial count.

Code Number:	**CLP20500, CLP25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 25 g in 960 ml of distilled water. Add 40 ml of TWEEN 80 Supplement (TWS80500). Mix well and keep the suspension at about 50 °C until the lecithin dissolved completely (20-30 min). The ready broth is yellowish and slightly turbid, but exempt from any precipitate. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Casein peptone	20
Lecithin	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: United States Pharmacopoeia XXIII. (1995)

CATC AGAR BASE

A selective medium for the detection of enterococci.

Code Number:	**CAT20500, CAT25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,0 (approx.) at 25 °C**

Direction: Suspend 28,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically 10 drops (0,5 ml) of TTC Solution, Sterile (TTC80030). Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	20,6
Sodium citrate	15,0
Sodium carbonate	2,0
Sodium azide	0,4
TWEEN 80	1,0
Buffers	5,0
Agar	13,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Escherichia coli*

References: Burkwall and Hartman (1964) Appl. Microbiol. 12: 18.

CETRIMIDE AGAR BASE, PH EUR - USP

A selective medium for isolation and identification of *Pseudomonas aeruginosa* according to PH EUR (Agar Medium N - Harmonised).

Code Number:	**CAB20500, CAB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water. Add 10 ml of Glycerol Supplement (GLC80100) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Gelatin peptone	20,0
Potassium sulphate	10,0
Magnesium chloride	1,4
Cetrimide	0,3
Agar	13,3

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Pseudomonas aeruginosa*
Negative control: *Escherichia coli*

References: European Pharmacopoeia 5.6

CETRIMIDE (CN) AGAR BASE

A selective medium for isolation and identification of *Pseudomonas aeruginosa.*

Code Number:	**CCN20500, CCN25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 50 g in one litre of distilled water. Add 10 ml of Glycerol Supplement (GLC80100) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	25,400
Potassium sulphate	10,000
Magnesium chloride	1,400
Cetrimide	0,200
Nalidixic acid	0,015
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Pseudomonas aeruginosa*
Negative control: *Escherichia coli*

References: Lowbury and Collins (1955) J. Clin. Pathol. 8: 47.

RENEWED PRODUCT

CETRIMIDE (CN) AGAR BASE No.2

A selective medium for isolation and identification of *Pseudomonas aeruginosa*.

Code Number:	**CCT20500, CCT25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction for Cetrimide (CN) Agar No.2: Suspend 25 g in 500 ml of distilled water. Add 5 ml of Glycerol Supplement (GLC80100) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the content of one vial of Pseudomonas Selective Supplement, CN (PCN80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Direction for Cetrimide (CFC) Agar No.2: Suspend 25 g in 500 ml of distilled water. Add 5 ml of Glycerol Supplement (GLC80100) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the content of one vial of Pseudomonas Selective Supplement, CFC (CFC80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula in g/l

Peptones	25,6
Magnesium chloride	1,4
Potassium sulphate	10,0
Agar	13,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Pseudomonas aeruginosa*
Negative control: *Escherichia coli*

References: Lowbury and Collins (1955) J. Clin. Pathol. 8: 47.

CHARCOAL AGAR BASE

A medium base for the cultivation and isolation of *Bordetella pertussis* and *Haemophilus influenzae.*

Code Number:	**CHA20500, CHA25000**
Colour:	**Black**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction for Bordetella agar: Suspend 26 g in 450 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood and the content of one vial of Bordetella Selective Supplement (BSS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Direction for Haemophilus agar: Suspend 26 g in 460 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 35 ml sterile defibrinated blood and 'chocolate' by heating at 80 °C for 10 min. Cool to 50 °C. Dissolve the content of one vial of Growth Factor Mixture Hydration Fluid with 5 ml of sterile distilled water and add aseptically to the Growth Factor Mixture (GFM80005). Mix well and add aseptically to the medium. Mix well before pouring.

Formula in g/l

Peptones	20,000
Starch soluble	10,000
Sodium chloride	5,000
Charcoal	4,000
Nicotinic acid	0,001
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Selective media:
Positive control: *Bordetella pertussis*
Negative control: *Klebsiella pneumoniae, Staphylococcus aureus*

Chocolate media:
Positive control: *Haemophilus influenzae*

References: Proom (1955) J. Gen. Microbiol. 12: 63.

CHINA BLUE LACTOSE AGAR

A differential medium for the differentiation of lactose-positive micro-organisms from lactose-negative ones and for enumeration of bacteria.

Code Number:	**CBA20500, CBA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 36 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	8,600
Lactose	10,000
Sodium chloride	5,000
China blue	0,375
Agar	12,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Lactose positive control: *Escherichia coli*
Lactose negative control: *Proteus mirabilis*

References: Brandl and Sobeck-Skal (1963) Milchwiss. Ber. 13: 1.

CHLORAMPHENICOL GLUCOSE AGAR

A selective medium for the enumeration of yeasts and moulds.

Code Number:	**CGA20500, CGA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,6 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Yeast extract	5,0
Glucose	20,0
Chloramphenicol	0,2
Agar	14,8

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Candida albicans*
Negative control: *Escherichia coli*

References: ISO 7954: 2001

CHOCOLATE AGAR BASE

A highly nutritious medium for the isolation and cultivation of fastidious micro-organisms, especially *Neisseria* and *Haemophilus* spp.

Code Number:	**CHO20500, CHO25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 16,5 g in 460 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 35 ml of sterile defibrinated blood and 'chocolate' by heating at 80 °C for 10 minutes. Cool to 50 °C. Dissolve the contents of one vial of Growth Factor Mixture Hydration Fluid with 5 ml of sterile distilled water and add aseptically to the Growth Factor Mixture (GFM80005). Mix well and add aseptically to the medium. Mix well before pouring.

Formula in g/l

Nutrient substrate (peptones, extracts)	13
Sodium chloride	5
Buffers	1
Agar	14

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Haemophilus influenzae*

References: Carpenter and Morton (1947) Proc. N. Y. State Assoc. Public Health Labs. 27: 58.

ChromoBio® CANDIDA

A selective and differential chromogenic medium for isolation and differentiation of major clinical-significant *Candida* spp.

Code Number:	**CAN20500, CAN25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,0 (approx.) at 25 °C**

Direction: Suspend 48 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	10,5
Glucose	20,0
Chromogenic substrate	2,0
Chloramphenicol	0,5
Agar	15,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Candida albicans, Candida tropicalis, Candida krusei*
Negative control: *Escherichia coli*

NEW PRODUCT

ChromoBio® CEREUS BASE

A selective and differential chromogenic medium for the detection of *Bacillus cereus*.

Code Number:	**CER20500, CER25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 16,5 g in 450 ml of distilled water and heat with fre-quent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. In the meantime add 50 ml of sterile distilled water to one bottle of Cereus Supplement (CES80050). Mix well and soak the suspension about one hour – repeating the mixing a few times - until the lecitin dissolves completely. The ready supplement is homogeneous turbid, but exempt from any precipitate. Cool to 50 °C the agar base and add aseptically the supplement. Mix well before pouring. To ensure the complete homogeneity repeat the mixing a few times during the pouring again.

FORMULA in g/l

Peptones	18
Chromogenic substrate	2
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Bacillus cereus*
Negative control: *Escherichia coli, Bacillus subtilis, Enterococcus faecalis*

ChromoBio® COLIFORM

A selective and differential chromogenic medium for the simultaneous detection of coliforms and *Escherichia coli*.

Code Number:	**COF20500, COF25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**6,8 (approx.) at 25 °C**

Direction: Suspend 30 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise at 100 °C (in water bath or flowing steam) for 30 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	3,50
Sorbitol	1,00
Sodium chloride	5,00
Sodium pyruvate	1,00
Tryptophane	1,00
Chromogenic substrate	0,40
Tergitol 7	0,15
Buffers	4,90
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Citrobacter freundii*
Negative control: *Salmonella enteritidis, Enterococcus faecalis*

References: Manafi and Kneifel (1989) Zentralbl. Hyg. 189: 225.

ChromoBio® ENTEROCOCCUS AGAR

A selective and differential chromogenic medium for the enumeration of enterococci.

Code Number:	**CEA20500, CEA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,0 (approx.) at 25 °C**

Direction: Suspend 42 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	20
Chromogenic substrate	3
TWEEN 80	1
Buffers	5
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Escherichia coli, Pseudomonas aeruginosa, Staphylococcus aureus*

ChromoBio® ENTEROCOCCUS BROTH

A selective and differential chromogenic medium for the selective enrichment of enterococci.

Code Number:	**CEB20500, CEB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,5 (approx.) at 25 °C**

Direction: Suspend 20 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	10,0
Sodium chloride	6,4
Sodium azide	0,6
Chromogenic substrate	3,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterococcus faecali*
Negative control: *Escherichia coli, Pseudomonas aeruginosa, Staphylococcus aureus*

RENEWED PRODUCT

ChromoBio® LISTERIA BASE

A selective and differential chromogenic medium for the cultivation, differentiation and isolation of *Listeria monocytogenes* according to ISO 11290-1.

Code Number:	**AL020500, AL025000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 35 g in 400 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically 100 ml of Listeria Supplement (LDS80100). Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

FORMULA FOR ONE LITRE OF THE COMPLETE MEDIUM

Enzymatic digest of animal tis-sue	18,00 g
Enzymatic digest of casein	6,00 g
Yeast extract	10,00 g
Glucose	2,00 g
Lithium chloride	10,00 g
Sodium chloride	5,00 g
Sodium pyruvate	2,00 g
Magnesium glycerophosphate	1,00 g
Magnesium sulphate	0,50 g
L-α-Phosphatidylinositol	2,00 g
Chromogenic substrate	0,05 g
Nalidixic acid	0,02 g
Ceftazidime	0,02 g
Amphotericin B	0,01 g
Polymyxin B	76.700 U
Disodium hydrogen phosphate	2,50 g
Agar	12,00 g

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Listeria monocytogenes*
Negative control: *Listeria innocua, Escherichia coli*

References: Ottaviani at al. (1997) Quinper Froid Symposium Proceedings, P6 A.D.R.I.A. Quinper (F) ISO 11290-1: 2004

RENEWED PRODUCT

ChromoBio® LISTERIA PLUS BASE

A selective and differential chromogenic medium for the cultivation, differentiation and isolation of Listeria monocytogenes. Listeria ivanovii can also be differentiated from Listeria monocytogenes on this medium.

Code Number:	LCA20500, LCA25000
Colour:	Beige
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving:	7,2 (approx.) at 25 °C

Direction: Suspend 35 g in 400 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically 100 ml of Listeria Supplement (LDS80100). Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

FORMULA FOR ONE LITRE OF THE COMPLETE MEDIUM

Peptones	34,00 g
Special carbohydrate mixture	2,00 g
Lithium chloride	10,00 g
Sodium chloride	5,00 g
Sodium pyruvate	2,00 g
Magnesium glycerophosphate	1,00 g
Magnesium sulphate	0,50 g
L-α-Phosphatidylinositol	2,00 g
Chromogenic substrate	0,05 g
Nalidixic acid	0,02 g
Ceftazidime	0,02 g
Amphotericin B	0,01 g
Polymyxin B	76.700 U
Bromocresol purple	0,05 g
Buffers	2,50 g
Agar	13,00 g

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Listeria monocytogenes*
Negative control: *Listeria ivanovii, Listeria innocua, Escherichia coli*

References: Ottaviani at al. (1997) Quinper Froid Symposium Proceedings, P6 A.D.R.I.A. Quinper (F) 16 – 18 June

ChromoBio® LMX

A selective and differential chromo- and fluorogenic medium for the detection of coliforms and differentiation of *E. coli* from other coliforms.

Code Number:	**LMX20500, LMX25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 17 g in one litre of distilled water for single strength broth or 34 g for double strength broth and heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Cool quickly!

Formula in g/l

Peptones	5,00
Sorbitol	1,00
Sodium chloride	5,00
Tryptophan	1,00
Fluorogen and chromogen substrate	0,23
Sodium lauryl sulphate	0,10
Buffers	4,70

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Citrobacter freundii, Salmonella enteritidis*
Negative control: *Enterococcus faecalis*

References: Manafi and Kneifel (1989) Zentralbl. Hyg. 189: 225.

ChromoBio® M-CP BASE

A selective and differential chromogenic medium for the enumeration of *Clostridium perfringens*.

Code Number:	**MCP20500, MCP25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,6 (approx.) at 25 °C**

Direction for 100 ml of Agar: Suspend 7,1 g in 100 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of M-CP Chromogenic Supplement (MCC80004-01) and one vial of M-CP Selective Supplement (MPS80004-01) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Direction for 500 ml of Agar: Suspend 35,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of M-CP Chromogenic Supplement (MCC80004-02) and one vial of M-CP Selective Supplement (MPS80004-02) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	50,00
Sucrose	5,00
Magnesium sulphate	0,10
L-Cysteine	1,00
Chromogenic subsrate	0,06
Bromocresol purple	0,04
Agar	14,90

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but no longer than 2 or 3 days.

Quality Control:
Positive control: *Clostridium perfringens*
Negative control: *Escherichia coli*

References: ISO 6461-1: 1986
ISO 6461-2: 1986

NEW PRODUCT

ChromoBio® MLGA

A selective and differential chromogenic medium for the differentiation and enumeration of *E. coli* and other coliforms.

Code Number:	**MLG20500, MLG25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 88 g in one litre of distilled water and heat with fre-quent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

FORMULA in g/l

Peptones	46,0
Lactose	30,0
Sodium lauryl sulphate	1,0
Sodium pyruvate	0,5
Chromogenic substrate	0,3
Phenol red	0,2
Agar	10,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Enterobacter aerogenes, Pseudomonas aeruginosa*
Negative control: *Enterococcus faecalis*

RENEWED PRODUCT

ChromoBio® SALMONELLA BASE

A selective and differential chromogenic medium for the detection of salmonellae.

Code Number:	**SAL20500, SAL25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 21,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Salmonella Selective Supplement (SSS80004) reconstituted with 4 ml sterile distilled water. Mix well before pouring.

FORMULA in g/l

Nutrient substrate (peptones, extracts)	10
Chromogenic substrate	20
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Salmonella typhimurium*
Negative control: *Proteus mirabilis, Pseudomonas aeruginosa, Enterococcus faecalis*

NEW PRODUCT

ChromoBio® SALMONELLA PLUS BASE

A selective and differential chromogenic medium for the detection of salmonellae. Comparing with ChromoBio® Salmonella Base the medium has increased selectivity (especially inhibits the *E. coli* efficiently).

Code Number:	**SAP20500, SAP25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 22,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Salmonella Plus Selective Supplement (SSP80004) reconstituted with 4 ml sterile distilled water. Mix well before pouring.

FORMULA in g/l

Nutrient substrate (peptones, extracts)	10
Chromogenic mix	22
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Salmonella typhimurium*
Negative control: *Escherichia coli, Pseudomonas aeruginosa, Proteus mirabilis, Enterococcus faecalis*

ChromoBio® TBX

A selective and differential chromogenic medium for the detection and enumeration of *E. coli.*

Code Number:	**TBX20500, TBX25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 37 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,500
Bile salts	1,500
Chromogenic substrate	0,075
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Enterococcus faecalis, Proteus mirabilis*

References: Frampton et al. (1988) J. Food Protection 51: 402.

ChromoBio® URINE

A differential chromogenic medium for the simultaneous detection of all the main micro-organisms that cause urinary tract infections.

Code Number:	**URN20500, URN25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 47 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	26
Chromogenic substrate	6
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Citrobacter freundii, Enterobacter aerogenes, Proteus mirabilis, Enterococcus faecalis, Staphylococcus aureus*

CLAUSEN MEDIUM BASE

A non-selective medium for sterility testing of sterile pharmaceutical preparations. The medium has better growth conditions than thioglycollate and also inactivates a large number of preservatives found in pharmaceutical products.

Code Number:	**CLB20500, CLB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water. Add 3 ml of TWEEN 80 Supplement (TWS80100) and 5 ml of Glycerol Supplement (GLC80100). Mix well and keep the suspension at about 50 °C until the lecithin dissolved completely (20-30 min). The ready medium is yellowish and slightly turbid, but exempt from any precipitate. Heat again with frequent agitation until the medium boils well. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	23,700
Glucose	6,000
Sodium chloride	2,500
Sodium citrate	1,000
Sodium thioglycollate	0,500
Sodium dithionite	0,400
Mg(II), Ca(II), Co(II), Cu(II), Fe(III), Zn(II) and Mn(II) salts	0,410
L-Asparagine	1,250
L-Cystine	0,500
Lecithin	1,000
Resazurin	0,001
Buffers	2,000
Agar	0,750

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Staphylococcus aureus, Clostridium perfringens*

References: Clausen (1956) Acta path. microbiol. scand. 38: 107.

CLED AGAR

A differential medium for the isolation and enumeration of micro-organisms from urine.

Code Number:	**CLA20500, CLA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 37 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	11,900
Lactose	10,000
L-Cystine	0,128
Bromothymol blue	0,020
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis, Enterococcus faecalis*

References: Mackey et al. (1966) Br. Med. J. 1: 1173.

CLED AGAR WITH ANDRADE INDICATOR

A differential medium for the isolation and enumeration of micro-organisms from urine. The double indicator enhances the differentiation of colony characteristics.

Code Number:	**CLD20500, CLD25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 37 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	11,800
Lactose	10,000
L-Cystine	0,128
Andrade indicator	0,100
Bromothymol blue	0,020
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis, Enterococcus faecalis*

References: Bevis (1968) J. Med. Lab. Tech. 25: 38.

CLOSTRIDIUM DIFFICILE AGAR BASE

A selective medium for the isolation of *Clostridium difficile.*

Code Number:	**CDA20500, CDA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 34,5 g in 460 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 35 ml of sterile defibrinated blood and the contents of one vial of Clostridium Selective Supplement (CDS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring. Because of the sensitivity of some *Clostridium difficile* strains, the amount of cycloserine and cefoxitin is reduced. If you want to compensate the reduction in selectivity, treat the specimen with alcohol before inoculation.

Formula in g/l

Peptones	40,0
Fructose	6,0
Sodium chloride	2,0
Magnesium sulphate	0,1
Buffers	5,9
Agar	15,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, no longer than 5 days.

Quality Control:
Positive control: *Clostridium difficile*
Negative control: *Escherichia coli, Staphylococcus aureus*

References: George et al. (1976) J. Clin. Microbiol. 9: 214.

CLOSTRIDIUM DIFFICILE (CCFA) AGAR BASE

A selective medium for the isolation of *Clostridium difficile.*

Code Number:	**CCF20500, CCF25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 34,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Clostridium Selective Supplement (CDS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring. Because of sensitivity of some strains of *Clostridium difficile*, the amount of cycloserine and cefoxitin is reduced. If you want to compensate the reduction in selectivity, treat the specimen with alcohol before inoculation.

Formula in g/l

Peptones	35,00
Fructose	6,00
Sodium chloride	2,00
Magnesium sulphate	0,20
Neutral red	0,03
Buffers	5,80
Agar	20,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, no longer than 5 days.

Quality Control:
Positive control: *Clostridium difficile*
Negative control: *Escherichia coli, Staphylococcus aureus*

References: George et al. (1976) J. Clin. Microbiol. 9: 214.

COLUMBIA BLOOD AGAR BASE

A multi-purpose, non-selective medium for the cultivation of non-fastidious and fastidious micro-organisms.

Code Number:	**COL20500, COL25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 42 g in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood. Mix well before pouring.

Formula in g/l

Nutrient substrate (peptones, extracts)	23
Starch soluble	1
Sodium chloride	5
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Streptococcus pyogenes, Streptococcus pneumoniae, Enterococcus faecalis*

References: Ellner et al. (1966) Am. J. Clin. Pathol. 45: 502.

COLUMBIA AGAR, PH EUR - USP

A multi-purpose, non-selective medium for the cultivation of non-fastidious and fastidious micro-organisms according to PH EUR (Agar Medium Q - Harmonised).

Code Number:	**CLE20500, CLE25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 42 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Casein peptone	10
Meat peptone	5
Heart infusion	3
Yeast extract	5
Starch soluble	1
Sodium chloride	5
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: European Pharmacopoeia 5.6

COLUMBIA CNA AGAR BASE

A selective medium for the isolation and differentiation of Gram-positive micro-organisms.

Code Number:	**CNA20500, CNA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 42 g in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 115 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Nutrient substrate (peptones, extracts)	23,00
Starch soluble	1,00
Sodium chloride	5,00
Nalidixic acid	0,01
Colistin	0,01
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Streptococcus pyogenes, Streptococcus pneumoniae, Streptococcus faecalis*
Negative control: *Proteus mirabilis*

References: Ellner et al. (1966) Am. J. Clin. Pathol. 45: 502.

CZAPEK-DOX AGAR

A selective medium for the cultivation of fungi and soil bacteria.

Code Number:	**CZA20500, CZA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 48 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. If it is necessary to adjust the pH 3,5 (approx.), cool to 50 °C and add aseptically Lactic Acid Solution (LAS80100) to the medium in the necessary quantity (approx. 10 ml). Mix well before pouring.

Warning!
Once acidified with lactic acid, the medium should not be re-heated.

Formula in g/l

Sucrose	30,00
Sodium nitrate	3,00
Magnesium sulphate	0,50
Potassium chloride	0,50
Ferrous sulphate	0,01
Buffers	1,00
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Aspergillus niger*
Negative control: *Escherichia coli*

References: APHA (1992) Standard Methods for the Examination of Water and Wastewater, 18th ed.

CZAPEK YEAST EXTRACT AGAR

A selective medium for the cultivation of fungi and soil bacteria.

Code Number:	**CYA20500, CYA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,3 (approx.) at 25 °C**

Direction: Suspend 55 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Yeast extract	5,000
Sucrose	30,000
Sodium nitrate	3,000
Magnesium sulphate	0,500
Potassium chloride	0,500
Ferrous sulphate	0,010
Zinc sulphate	0,010
Copper sulphate	0,005
Buffers	1,500
Agar	14,500

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Aspergillus niger*
Negative control: *Escherichia coli*

References: Warcup (1950) Nature 166: 117.

DECARBOXYLASE BROTH BASES

See: Culture Media for Amino Acid Decompositon Studies (page 13)

DEOXYCHOLATE CITRATE AGAR, HYNES, MODIFIED

A selective and differential medium for the isolation of Gram-negative enteric micro-organisms. Deoxycholate Citrate Agar, Hynes is more selective than Deoxycholate Citrate Agar, Leifson. The medium supplemented with phenylalanine is suitable to distinguish *Salmonella* spp. from *Proteus* spp.

Code Number:	**DCH20500, DCH25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,0 (approx.) at 25 °C**

Direction: Suspend 73 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	26,50
Lactose	10,00
Sodium citrate	9,00
Sodium thiosulphate	5,50
Sodium deoxycholate	5,00
Ferric citrate	1,00
L-Phenylalanine	1,00
Neutral red	0,02
Agar	15,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but no longer than one week.

Quality Control:
Positive control: *Escherichia coli, Salmonella enteritidis, Shigella sonnei, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: Hynes (1942) J. Path. Bact. 54: 193.

DEOXYCHOLATE CITRATE AGAR, LEIFSON, MODIFIED

A selective and differential medium for the isolation of Gram-negative enteric micro-organisms. Deoxycholate Citrate Agar, Leifson is less selective than Deoxycholate Citrate Agar, Hynes. The medium supplemented with phenylalanine is suitable to distinguish *Salmonella* spp. from *Proteus* spp.

Code Number:	**DCC20500, DCC25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,0 (approx.) at 25 °C**

Direction: Suspend 66 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	26,50
Lactose	10,00
Sodium citrate	5,00
Sodium thiosulphate	5,00
Sodium deoxycholate	2,50
Ferric citrate	1,00
L-Phenylalanine	1,00
Neutral red	0,02
Agar	15,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but no longer than one week.

Quality Control:
Positive control: *Escherichia coli, Salmonella enteritidis, Shigella sonnei, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: Leifson (1935) J. Path. Bact. 40: 581.

DEOXYCHOLATE CITRATE AGAR, PH EUR

A selective and differential medium for the isolation of Gram-negative enteric micro-organisms according to PH EUR (Agar Medium J).

Code Number:	**DCE20500, DCE25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,3 (approx.) at 25 °C**

Direction: Suspend 70 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Meat peptone	10,00
Beef extract	10,00
Lactose monohydrate	10,00
Sodium citrate	20,00
Sodium deoxycholate	5,00
Ferric citrate	1,00
Neutral red	0,02
Agar	14,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but no longer than one week.

Quality Control:
Positive control: *Escherichia coli, Salmonella enteritidis, Shigella sonnei, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: European Pharmacopoeia 5.6

DEOXYCHOLATE LACTOSE AGAR

A selective and differential medium for the enumeration and isolation of coliform micro-organisms.

Code Number:	**DCL20500, DCL25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,2 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	14,500
Lactose	10,000
Sodium chloride	5,000
Sodium citrate	2,000
Sodium deoxycholate	0,500
Neutral red	0,033
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but no longer than one week.

Quality Control:
Positive control: *Escherichia coli, Shigella sonnei, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: APHA (1992) Compendium of Methods for the Microbiological Examinations of Foods, 3rd ed.

DEXTROSE BROTH

A general purpose enrichment medium is also usable for studying of dextrose fermentation.

Code Number:	**DEB20500, DEB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 20 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers. Durham tubes may be added into the tubes in order to determine gas production. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10
Glucose	5
Sodium chloride	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Streptococcus pyogenes*

DEXTROSE TRYPTONE AGAR

A differential medium for the detection and enumeration of mesophilic and thermophilic aerobe micro-organisms.

Code Number:	**DTR20500, DTR25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,9 (approx.) at 25 °C**

Direction: Suspend 28 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptone	10,00
Glucose	5,00
Bromocresol purple	0,04
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Bacillus stearothermophilus*

References: APHA (1992) Compendium of Methods for the Microbiological Examination of Foods

DEXTROSE TRYPTONE BROTH

A differential medium for the detection of mesophilic and thermophilic aerobe micro-organisms.

Code Number:	**DTB20500, DTB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,9 (approx.) at 25 °C**

Direction: Suspend 15 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptone	10,00
Glucose	5,00
Bromocresol purple	0,04

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Bacillus stearothermophilus*

References: APHA (1976) Compendium of Methods for the Microbiological Examination of Foods

DG18 AGAR BASE

A selective medium with low water activity for the enumeration and isolation of yeasts and moulds, especially the xerophilic moulds.

Code Number:	**D1820500, D1825000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,6 (approx.) at 25 °C**

Direction: Fill up 175 ml of Glycerol Supplement (GLC80500) to one litre with distilled water. Suspend 32 g of dehydrated medium and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Mix well before pouring.

Formula in g/l

Peptones	5,000
Glucose	10,000
Magnesium sulphate	0,500
Chloramphenicol	0,100
Dichloran	0,002
Buffers	1,000
Agar	15,400

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Saccharomyces cerevisiae*
Negative control: *Escherichia coli*

References: Hocking and Pitt (1980) J. Appl. Envir. Micr. 39: 488.

DIAGNOSTIC SENSITIVITY TEST AGAR

A dual purpose medium for the isolation and antimicrobial susceptibility testing of micro-organisms.

Code Number:	**DST20500, DST25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 41 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10,00000
Veal heart extract	10,00000
Glucose	2,00000
Sodium chloride	3,00000
Adenine sulphate	0,01000
Guanine hydrochloride	0,01000
Uracil	0,01000
Xanthine	0,01000
Thiamine HCl	0,00003
Buffers	3,00000
Agar	13,00000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Pseudomonas aeruginosa, Streptococcus pneumoniae, Enterococcus faecalis*

References: Ericsson et al. (1971) Acta Path. Microbiol. Scan. B. Suppl. 217.

DIASALM MEDIUM BASE

A semi-solid selective motility medium for the isolation of *Salmonella* spp.

Code Number:	**DIM20500, DIM25000**
Colour:	**Greenish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**5,5 (approx.) at 25 °C**

Direction: Fill up 20 ml of DIASALM-MSRV Magnesium Chloride Solution (DSM80500) to 500 ml with distilled water. Suspend 20 g of dehydrated medium and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of Novobiocin (5 mg) Supplement (DSN80004-05) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	27,000
Sucrose	7,500
Lactose	0,500
Sodium thiosulphate	0,800
Ferrous ammonium sulphate	0,200
Bromocresol purple	0,080
Malachite green	0,037
Buffers	1,200
Agar	2,700

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but no longer than 2 or 3 days.

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Pseudomonas aeruginosa*

References: Van der Zee and Van Netten (1992) Proc. Symp. 'Salmonella and Salmonellosis'. Ploufragan: 69.

DNASE AGAR

A differential medium for the detection of deoxyribonuclease activity of micro-organisms.

Code Number:	**DNA20500, DNA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptose	20
Sodium chloride	5
Deoxyribonucleic acid	2
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Staphylococcus aureus*
Negative control: *Staphylococcus epidermidis*

References: Jeffries et al. (1957) J. Bact. 73: 590.

DNASE AGAR WITH MANNITOL

A differential medium for the detection of deoxyribonuclease activity of micro-organisms.

Code Number:	**DNM20500, DNM25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 50 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptose	20,00
Mannitol	10,00
Sodium chloride	5,00
Deoxyribonucleic acid	2,00
Phenol red	0,02
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Staphylococcus aureus*
Negative control: *Staphylococcus epidermidis*

References: Jeffries et al. (1957) J. Bact. 73: 590.

DNASE AGAR WITH METHYL GREEN

A differential medium for the detection of deoxyribonuclease activity of micro-organisms.

Code Number:	**DNG20500, DNG25000**
Colour:	**Greenish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptose	20,00
Sodium chloride	5,00
Deoxyribonucleic acid	2,00
Methyl green	0,05
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Staphylococcus aureus*
Negative control: *Staphylococcus epidermidis*

References: Jeffries et al. (1957) J. Bact. 73: 590.

DNASE AGAR WITH TOLUIDINE BLUE

A differential medium for the detection of deoxyribonuclease activity of micro-organisms.

Code Number:	**DNT20500, DNT25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptose	20,0
Sodium chloride	5,0
Deoxyribonucleic acid	2,0
Toluidine blue	0,1
Agar	13,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Staphylococcus aureus*
Negative control: *Staphylococcus epidermidis*

References: Jeffries et al. (1957) J. Bact. 73: 590.

DRIGALSKI GLUCOSE AGAR

A glucose containing selective and differential medium for the detection and enumeration of enterobacteriaceae.

Code Number:	**DAC20500, DAC25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,3 (approx.) at 25 °C**

Direction: Suspend 47 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	18,400
Bile salt	1,500
Glucose	10,000
Sodium chloride	2,000
Bromothymol blue	0,150
Crystal violet	0,002
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Staphylococcus aureus*

References: Ewing (1986) Edwards and Ewing's identifications of the enterobacteriaceae, 4th ed.

DRIGALSKI LACTOSE AGAR

A lactose containing selective and differential medium for the detection and enumeration of coliforms.

Code Number:	**DAS20500, DAS25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,3 (approx.) at 25 °C**

Direction: Suspend 66 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	17,400
Bile salt	1,500
Sucrose	17,000
Lactose	13,000
Sodium chloride	2,000
Bromothymol blue	0,150
Crystal violet	0,002
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Staphylococcus aureus*

References: Ewing (1986) Edwards and Ewing's identifications of the enterobacteriaceae, 4th ed.

DTM AGAR BASE

A highly selective medium for the isolation of dermatophytes.

Code Number:	**DTM20500, DTM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,5 (approx.) at 25 °C**

Direction: Suspend 20 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of DTM Selective Supplement (DTS80004) reconstituted with 4 ml of 1:1 mixture of ethanol and sterile distilled water. Mix well before pouring.

Formula in g/l

Peptones	10,0
Glucose	10,0
Phenol red	0,2
Agar	20,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C (plates) or at room temperature (tubes).

Quality Control:
Positive control: *Candida albicans*
Negative control: *Saccharomyces cerevisiae*

References: Taplin et al. (1969) Arch. Dermatol. 99: 203.

EC BROTH

A selective and differential medium for the detection of coliform bacteria.

Code Number:	**ECB20500, ECB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 115 °C for 15 minutes. Cool quickly!

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	23,0
Bile salts	1,5
Lactose	5,0
Sodium chloride	5,0
Buffers	5,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterobacter aerogenes, Escherichia coli*
Negative control: *Streptococcus faecalis*

References: Hajna and Perry (1943) Am. J. Public. Health. 33: 550.

EE BROTH, PH EUR – USP

A selective medium for the cultivation of enterobacteriaceae according to PH EUR (Broth Medium E – Enterobacteria Enrichment Broth, Mossel – Harmonised).

Code Number:	**EEB20500, EEB25000**
Colour:	**Greenish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,2 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water for single strength broth or 90 g for double strength broth and heat gently to dissolve the medium completely. Dispense into final containers and sterilise at 100 °C for 30 minutes. Cool quickly!

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Gelatin peptone	10,000
Bacteriological bile	20,000
Glucose monohydrate	5,000
Brilliant green	0,015
Potassium dihydrogen phosphate	2,000
Disodium hydrogen phosphate dihydrate	8,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Staphylococcus aureus*

References: Mossel et. al. (1963) J. Apple. Bact. 26: 444.
European Pharmacopoeia 5.6

EDWARDS AGAR BASE

A selective medium for the isolation and enumeration of streptococci especially *Streptococcus agalactiae*.

Code Number:	**EDA20500, EDA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 41 g in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood. Mix well before pouring.

Formula in g/l

Peptones	20,000
Sodium chloride	5,000
Esculin	1,000
Thallous acetate	0,300
Crystal violet	0,001
Agar	14,700

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Streptococcus agalactiae*
Negative control: *Escherichia coli*

References: Ewards (1933) J. Comp. Path. Therap. 46: 211.

ELLIKER BROTH

A selective medium for the cultivation of streptococci and lactobacilli.

Code Number:	**ELB20500, ELB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 49 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final container and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	25,5
Glucose	5,0
Lactose	5,0
Sucrose	5,0
Sodium chloride	4,0
Sodium acetate	1,5
Gelatin	2,5
Ascorbic acid	0,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Lactobacillus casei*

References: McLaughlin (1946) J. Bacteriol. 51: 560.

ENDO AGAR BASE

A selective and differential medium for the detection of coliforms and other enteric bacteria.

Code Number:	**END20500, END25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 42 g in one litre of distilled water. Add 5 ml of Endo Basic Fuchsin Solution (FBS80060). Mix well and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Mix well again before pouring.

Formula in g/l

Peptones	12,0
Lactose	10,0
Sodium sulphite	2,5
Buffers	2,5
Agar	15,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Shigella sonnei*
Negative control: *Enterococcus faecalis*

References: APHA (1998) Standard Methods for the Examination of Water and Wastewater, 20th ed.

ENDO AGAR BASE, DEV

A selective and differential medium for the detection of coliforms and other enteric bacteria according to DEV.

Code Number:	**EDE20500, EDE25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,9 (approx.) at 25 °C**

Direction: Suspend 58 g in one litre of distilled water. Add 5 ml of Endo Basic Fuchsin Solution, DEV (FBS80045). Mix well and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Mix well again before pouring.

Formula in g/l

Peptones	20,5
Lactose	10,0
Sodium chloride	5,0
Sodium sulphite	2,5
Agar	20,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Shigella sonnei*
Negative control: *Enterococcus faecalis*

References: DIN 38411

ENDO LES AGAR BASE

A selective and differential medium for the enumeration of coliforms by membrane filtration.

Code Number:	**ELA20500, ELA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 50 g in one litre of distilled water. Add 5 ml of Endo Basic Fuchsin Solution (FBS80060). Mix well and heat with frequent agitation until the medium boils well.Sterilise by autoclaving at 121 °C for 15 minutes. Mix well again before pouring.

Formula in g/l

Peptones	15,00
Lactose	10,00
Sodium chloride	3,70
Sodium sulphite	1,60
Sodium deoxycholate	0,10
Sodium lauryl sulphate	0,05
Buffers	4,50
Agar	15,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Shigella sonnei*
Negative control: *Enterococcus faecalis*

References: McCarthy et al. (1961) Water Sewage Works 108: 238.

ENDO M BROTH BASE

A selective and differential medium for the one-step method for the enumeration of coliforms by membrane filtration.

Code Number:	**ENB20500, ENB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 48 g in one litre of distilled water. Add 10 ml of Endo Basic Fuchsin Solution (FBS80060). Mix well and heat with frequent agi-tation until the medium boils well.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	22,50
Lactose	12,50
Sodium chloride	5,00
Sodium sulphite	2,10
Sodium deoxycholate	0,10
Sodium lauryl sulphate	0,05
Buffers	5,75

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C no longer than one week, but the best solution is to use on the day of preparation.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Enterococcus faecalis*

References: APHA (1998) Standard Methods for the Examination of Water and Wastewater, 20th ed.

EOSIN METHYLENE BLUE AGAR, USP

A selective and differential medium for the isolation and differentiation of Gram-negative enteric bacteria according to USP.

Code Number:	**EMB20500, EMB25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 36 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10,500
Lactose	10,000
Eosin Y	0,400
Methylene blue	0,065
Buffers	2,000
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Shigella sonnei, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: Levine (1918) J. Infect. Dis. 23: 43.
United States Pharmacopoeia XXVIII. (2005)

NEW PRODUCT

EOSIN METHYLENE BLUE LACTOSE SUCROSE AGAR

A selective and differential medium for the isolation and differentiation of Gram-negative enteric bacteria.

Code Number:	EMC20500, EMC25000
Colour:	Pinkish purple
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving:	7,0 (approx.) at 25 °C

Direction: Suspend 36 g in one litre of distilled water and heat with fre-quent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

FORMULA in g/l

Peptones	10,500
Lactose	5,000
Sucrose	5,000
Eosin Y	0,400
Methylene blue	0,065
Buffers	2,000
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Salmonella typhimurium*
Negative control: *Enterococcus faecalis*

References: APHA (1950) Diagnostic Procedures and Reagents, 2nd ed.

ESCULIN AGAR

A differential medium for the detection of esculin hydrolysis.

Code Number:	**ESA20500, ESA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 35 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	18
Ferric citrate	1
Esculin	1
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Streptococcus pyogenes*

References: Blazevic and Ederer (1975) Principles of Biochemical Tests in Diag. Microbiol.

ESCULIN BROTH

A differential medium for the detection of esculin hydrolysis.

Code Number:	**ESB20500, ESB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 12 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10
Ferric citrate	1
Esculin	1

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Streptococcus pyogenes*

References: Blazevic and Ederer (1975) Principles of Biochemical Tests in Diag. Microbiol.

ETHYL VIOLET AZIDE (EVA) BROTH

A selective medium for the presumptive identification of enterococci.

Code Number:	**EVA20500, EVA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 36 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	20,0000
Glucose	5,0000
Sodium chloride	5,0000
Sodium azide	0,4000
Ethyl violet	0,0008
Buffers	5,6000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Escherichia coli*

References: Litsky at al. (1953) Am. J. Pub. Health. 43: 873.

NEW PRODUCT

EUGON LT 100 AGAR BASE

A neutralising medium for the preparation and enrichment of test samples in the cosmetic industries.

Code Number:	**EUA20500, EUA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water. Add 5 ml of TWEEN 80 Supplement (TWS80500) and 1 ml of TRITON X-100 Sup-plement (TXS80100). Mix well and keep the suspension at about 40 - 50 °C until the lecithin dissolves completely (20 – 30 min). The ready me-dium is yellowish and slightly turbid, but exempt from any precipitate. Heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Mix well before pouring.

FORMULA OF READY MEDIUM in g/l

Casein pepton	15,6
Soya peptone	5,0
Glucose	5,5
Sodium chloride	4,0
Sodium sulphite	0,2
L-Cysteine	0,7
Lecithin	1,0
TWEEN 80	5,0
TRITON X-100	1,0
Agar	13,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2 – 8 °C.

Quality Control:
Positive control: *Escherichia coli, Pseudomonas aeruginosa, Staphylococcus aureus, Aspergillus brasiliensis, Candida albicans*

References: ISO 21148: 2009

NEW PRODUCT

EUGON LT 100 BROTH BASE

A neutralising medium for the preparation and enrichment of test samples in the cosmetic industries.

Code Number:	**EUB20500, EUB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 32 g in one litre of distilled water. Add 5 ml of TWEEN 80 Supplement (TWS80500) and 1 ml of TRITON X-100 Supplement (TXS80100). Mix well and keep the suspension at about 40 - 50 °C until the lecithin dissolves completely (20 – 30 min). The ready medium is yellowish and slightly turbid, but exempt from any precipitate. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes. Mix well before use!

Warning!
At the bottom of the container some separation of supplement TWEEN might be observed which has no effect on the quality of the medium. Shaking the container it disappears.

FORMULA OF READY MEDIUM in g/l

Casein peptone	15,6
Soya peptone	5,0
Glucose	5,5
Sodium chloride	4,0
Sodium sulphite	0,2
L-Cysteine	0,7
Lecithin	1,0
TWEEN 80	5,0
TRITON X-100	1,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2 – 8 °C.

Quality Control:
Positive control: *Escherichia coli, Pseudomonas aeruginosa, Staphylococcus aureus, Aspergillus brasiliensis, Candida albicans*

References: ISO 21148: 2009

FluoroBio® BGLB

A selective medium for the detection of coliform bacteria by a fluorogenic procedure.

Code Number:	**BBM20500, BBM25000**
Colour:	**Greenish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 115 °C for 15 minutes. Cool quickly!

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	10,0000
Bacteriological bile	20,0000
Lactose	10,0000
MUG	0,0500
Brilliant green	0,0133

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Enterobacter aerogenes*
Negative control: *Staphylococcus aureus*

References: APHA (1986) Standard Methods for the Examination of Water and Wastewater, 15th ed. Kilian and Bulow (1984) Acta Path. Micr. Scand. Sect. B. 84: 245.

FluoroBio® CLED

A differential medium for the isolation and enumeration of micro-organisms from urine. Differentiation of *E. coli* colonies is possible by a fluorogenic procedure.

Code Number:	**CLM20500, CLM25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 37 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	11,800
Lactose	10,000
L-Cystine	0,128
MUG	0,100
Bromothymol blue	0,020
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis, Enterococcus faecalis*

References: Mackey et al. (1966) Br. Med. J. 1: 1173.
Kilian and Bulow (1984) Acta Path. Micr. Scand. Sect. B. 84: 245.

FluoroBio® EC

A selective and differential medium for the detection of coliform bacteria by a fluorogenic procedure.

Code Number:	**ECM20500, ECM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 115 °C for 15 minutes. Cool quickly!

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	23,00
Bile salts	1,50
Lactose	5,00
Sodium chloride	5,00
MUG	0,05
Buffers	5,50

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterobacter aerogenes, Escherichia coli*
Negative control: *Streptococcus faecalis*

References: Hajna and Perry (1943) Am. J. Public. Health. 33: 550.
Kilian and Bulow (1984) Acta Path. Micr. Scand. Sect. B. 84: 245.

FluoroBio® ECD

A selective and differential medium for the detection of *Escherichia coli* by a fluorogenic procedure.

Code Number:	**EDM20500, EDM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 51 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,0
Bile salts	1,5
Lactose	5,0
Sodium chloride	5,0
Tryptophane	1,0
MUG	0,1
Buffers	5,4
Agar	13,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Salmonella enteritidis*
Negatíve control: *Enterococcus faecalis*

References: Hajna and Perry (1943) Am. J. Public. Health. 33: 550.
Kilian and Bulow (1984) Acta Path. Micr. Scand. Sect. B. 84: 245.

FluoroBio® LSB

A selective enrichment medium for the detection of coliform bacteria by a fluorogenic procedure.

Code Number:	**LSM20500, LSM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 35 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptose	19,40
Lactose	5,00
Sodium chloride	5,00
Sodium lauryl sulphate	0,10
MUG	0,10
Buffers	5,40

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Salmonella enteritidis*
Negative control: *Enterococcus faecalis*

References: APHA (1976) Compendium of Methods for the Microbiological Examination of Foods.
Kilian and Bulow (1984) Acta Path. Micr. Scand. Sect. B. 84: 245.

FluoroBio® MACCONKEY AGAR

A selective and differential medium for the detection of coliform bacteria and enteric pathogens by a fluorogenic procedure.

Code Number:	**MCM20500, MCM25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 52 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,400
Bile salts No.3	1,500
Lactose	10,000
Sodium chloride	5,000
MUG	0,100
Neutral red	0,030
Crystal violet	0,001
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Shigella sonnei, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: MacConkey (1900) The Lancet
Kilian and Bulow (1984) Acta Path. Micr. Scand. Sect. B. 84: 245.

FluoroBio® MACCONKEY BROTH

A differential medium containing neutral red for the detection of coliform bacteria by a fluorogenic procedure.

Code Number:	**MNM20500, MNM25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 37 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,40
Bile salts No.3	1,50
Lactose	10,00
Sodium chloride	5,00
MUG	0,10
Neutral red	0,03

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: WHO (1963) Int. Stand. for Drinking Water
Kilian and Bulow (1984) Acta Path. Micr. Scand. Sect. B. 84: 245.

FluoroBio® MACCONKEY BROTH, PURPLE

A differential medium containing bromocresol purple for the detection of coliform bacteria by a fluorogenic procedure.

Code Number:	**MPM20500, MPM25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 37 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,40
Bile salts No.3	1,50
Lactose	10,00
Sodium chloride	5,00
MUG	0,10
Bromocresol purple	0,01

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: WHO (1963) Int. Stand. for Drinking Water
Kilian and Bulow (1984) Acta Path. Micr. Scand. Sect. B. 84: 245.

FluoroBio® VRBL

A lactose containing selective and differential medium for the detection and enumeration of coliforms by a fluorogenic procedure.

Code Number:	**VBM20500, VBM25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,4 (approx.) at 25 °C**

Direction: Suspend 41,5 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	10,000
Bile salts	1,500
Lactose	10,000
Sodium chloride	5,000
MUG	0,100
Neutral red	0,030
Crystal violet	0,002
Agar	14,900

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Staphylococcus aureus*

References: APHA (1978) Standard Method for the Examination of Dairy Product. 14th ed.
Kilian and Bulow (1984) Acta Path. Micr. Scand. Sect. B. 84: 245.

GBS AGAR BASE

A differential medium for the isolation and detection of Group B streptococci.

Code Number:	**GBS20500, GBS25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,5 (approx.) at 25 °C**

Direction: Suspend 47 g in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of sterile inactivated horse serum (i.e. serum held at 56 °C for 30 minutes). Mix well before pouring.

Formula in g/l

Peptones	23
Starch soluble	5
Buffers	7
Agar	12

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Streptococcus agalactiae*
Negative control: *Enterococcus faecalis*

References: Islam (1977) The Lancet: 256.

GC AGAR BASE

A highly nutritious medium for the isolation and cultivation of fastidious micro-organisms especially *Neisseria* and *Haemophilus* spp.

Code Number:	**GCA20500, GCA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction for Thayer-Martin Agar: Suspend 19,5 g in 460 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 35 ml of sterile defibrinated blood and 'chocolate' by heating at 80 °C for 10 min. Cool to 50 °C. Dissolve the contents of one vial of Growth Factor Mixture Hydration Fluid with 5 ml of sterile distilled water and add aseptically to the Growth Factor Mixture (GFM80005). Mix well and add aseptically to the medium. Mix well before pouring.

Direction for Selective Thayer-Martin Agar: Dissolve the contents of one vial of GC Selective Supplement, VCN (VCN80004) or GC Selective Supplement, VCNT (VCT80004) with 4 ml of sterile distilled water and add aseptically to the above at 50 °C. Mix well before pouring.

Formula in g/l

Nutrient substrate (peptones, extracts)	15
Sodium chloride	5
Starch soluble	1
Buffers	5
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Neisseria gonorrhoeae, Neisseria meningitidis*
Negative control (in case of selective media):
Proteus mirabilis, Staphylococcus aureus

References: Thayer and Martin (1966) Public Health Rep. 81: 559.

GIOLITTI-CANTONI BROTH BASE

A selective enrichment medium for the selective cultivation of *Staphylococcus aureus.*

Code Number:	**GCB20500, GCB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 54 g in one litre of distilled water. Heat gently to dissolve completely. Dispense into final containers and sterilise by autoclaving at 121°C for 15 minutes. Cool rapidly and add one drop (50 µl) Giolitti-Cantoni Potassium Tellurite Solution (PTG80050) to each 10 ml of the medium aseptically, through a sterile filter.

Formula in g/l

Peptones	19,8
Mannitol	20,0
Sodium chloride	5,0
Sodium pyruvate	3,0
Glycine	1,2
Lithium chloride	5,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Staphylococcus aureus*
Negative control: *Escherichia coli*

References: Giolitti and Cantoni (1966) J. Appl. Bact. 29: 395.

GLUTAMATE BROTH BASE, MODIFIED

A synthetic differential medium for the enumeration of the coliforms in water.

Code Number:	**MMG20500, MMG25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Dissolve 2,5 g of ammonium chloride and 6,4 g of sodium glutamate in one litre of distilled water. Add 11,4 g of dehydrated medium and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 115 °C for 10 minutes. Cool quickly!

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Lactose	10,000
Sodium formate	0,250
Amino acids	0,064
Minerals	0,111
Vitamins	0,003
Bromocresol purple	0,020
Buffers	0,950

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Salmonella enteritidis*

References: PHLS (1968) J. Hyg. Camb. 66: 67-82.

GN BROTH

A selective medium for the enrichment of *Salmonella* and *Shigella* spp.

Code Number:	**GNB20500, GNB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 39 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes. Cool quickly!

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	20,0
Mannitol	2,0
Glucose	1,0
Sodium chloride	5,0
Sodium citrate	5,0
Sodium deoxycholate	0,5
Buffers	5,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Salmonella enteritidis, Shigella sonnei*
Negative control: *Escherichia coli*

References: Hajna (1955) Public Health Lab. 13: 59.

GSP AGAR BASE

A selective and differential medium for the detection and differentiation of *Pseudomonas* and *Aeromonas* spp.

Code Number:	**GSP20500, GSP25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,4 (approx.) at 25 °C**

Direction: Suspend 23 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool quickly to 50 °C and add aseptically the contents of one vial of GSP Selective Supplement (GSU80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Starch soluble	20,00
Sodium glutamate	10,00
Magnesium sulphate	0,50
Phenol red	0,36
Buffers	2,00
Agar	13,10

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Pseudomonas aeruginosa, Aeromonas hydrophila*
Negative control: *Staphylococcus aureus*

References: Kielwen et al. (1969) Arch. f. Lebensmittelhyg. 20: 131.

HAEMOPHILUS TEST AGAR BASE

A standard medium for the susceptibility testing of *Haemophilus influenzae.*

Code Number:	**HTM20500, HTM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 21,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Haemophilus Supplement (HTS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula in g/l

Mueller-Hinton II Agar	38
Yeast extract	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Haemophilus influenzae*

References: Jorgensen at al. (1987) J. Clin. Micro. 25: 2105.

HEKTOEN ENTERIC AGAR

A selective and differential medium for the isolation of enteric micro-organisms, especially *Salmonella* and some *Shigella* spp.

Code Number:	**HEA20500, HEA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,5 (approx.) at 25 °C**

Direction: Suspend 77 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	15,300
Bile salts	9,000
Lactose	12,000
Sucrose	12,000
Salicin	2,000
Sodium chloride	5,000
Sodium thiosulphate	5,000
Ferric citrate	1,500
Acid fuchsin	0,100
Bromothymol blue	0,065
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Shigella flexneri, Salmonella enteritidis*
Negative control: *Enterococcus faecalis*

References: King and Metzger (1968) Appl. Microbiol. 16: 577.

HUGH-LEIFSON OF MEDIUM BASE

A semi-solid medium base for the carbohydrate fermentation studies.

Code Number:	**SUG20500, SUG25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 12 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add the filter sterilised sugar (10 g/l) solution to be examined to the medium. Dispense aseptically into sterile test tubes.

Formula in g/l

Peptones	3,00
Sodium chloride	5,00
Bromocresol purple	0,03
Buffers	1,00
Agar	3,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: Use micro-organisms, which have known positive or negative reactions with investigated sugars.

References: Hugh and Leifson (1953) J. Bact. 66: 24.

INDOLE MOTILITY ORNITHINE (IMO) MEDIUM

A semi-solid differential medium for the differentiation of Gram-negative enteric bacteria on the basis of the indole production, motility and the ornithine decarboxylase activity.

Code Number:	**IMO20500, IMO25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,6 (approx.) at 25 °C**

Direction: Suspend 26 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	16,00
Glucose	1,00
L-Ornithine	5,00
Bromocresol purple	0,03
Buffers	1,00
Agar	3,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Enterobacter aerogenes, Klebsiella pneumoniae*

References: Ederer and Clark (1970) Appl. Microbiol. 2: 849.

IRON SULPHITE AGAR

A differential medium for the detection of thermophilic anaerobes, producing hydrogen sulphite.

Code Number:	**ISA20500, ISA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat with frequent agitation until the medium boil well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	25
Disodium disulphite	1
Ferric ammonium citrate	1
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Clostridium perfringens*

References: ISO 15213: 2003

KANAMYCIN ESCULIN AZIDE AGAR

A selective adn differential medium for the isolation of enterococci.

Code Number:	**KEA20500, KEA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 48 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	25,30
Sodium chloride	5,00
Sodium citrate	1,00
Ferric ammonium citrate	0,50
Sodium azide	0,15
Esculin	1,00
Kanamycin	0,02
Agar	15,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Escherichia coli*

References: Mossel et al. (1978) Arch. Lebensmittel-hyg. 29: 121.

K AGAR BASE

A medium for the detection of *Alicyclobacillus* spp.

Code Number:	**KSA20500, KSA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH after supplementation:	**3,7 (approx.) at 25 °C**

Direction: Suspend 12 g in 500 ml of distilled water. Add 0,5 ml of TWEEN 80 Supplement (TWS80100) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool quickly to 50 °C and add aseptically 1 vial of K Agar Malic Acid Solution (KMS80005). Mix well before pouring.

Warning!
Once acidified with malic acid, the medium should not be re-heated.

Formula in g/l

Peptones	8
Glucose	1
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Alicyclobacillus acidoterrestris*

KANAMYCIN ESCULIN AZIDE BROTH

A selective medium for the isolation of enterococci.

Code Number:	**KEB20500, KEB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 33 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	25,30
Sodium chloride	5,00
Sodium citrate	1,00
Ferric ammonium citrate	0,50
Sodium azide	0,15
Esculin	1,00
Kanamycin	0,02

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Escherichia coli*

References: Mossel et al. (1978) Arch. Lebensmittel-hyg. 29: 121.

KF STREPTOCOCCUS AGAR BASE

A selective medium for the isolation and enumeration of enterococci.

Code Number:	**KFA20500, KFA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,2 (approx.) at 25 °C**

Direction: Suspend 72 g in one litre of distilled water and boil to dissolve the medium completely. Cool to 50 °C and add one drop KF TTC Solution (KTS80005) to each 100 ml of the medium. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	20,600
Maltose	20,000
Lactose	1,000
Sodium chloride	5,000
Sodium azide	0,400
Bromocresol purple	0,015
Sodium glycerophosphate	10,000
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Escherichia coli*

References: Kenner et al. (1961) Appl. Microbiol. 9: 15.

KIMMIG AGAR BASE

A non-selective medium for the cultivation, isolation, identification and strain preservation of fungi.

Code Number:	**KIM20500, KIM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,5 (approx.) at 25 °C**

Direction: Suspend 50 g in one litre of distilled water. Add 5 ml of Glycerol Supplement (GLC80100) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	15
Glucose	19
Sodium chloride	1
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Candida albicans*

References: Kimmig and Rieth (1993) Arzneimittelforsh 3: 267.

KING A AGAR BASE, USP

A differential medium for the detection of *Pseudomonas aeruginosa* on the basis of pigment production according to USP. KING A agar enhances the production of piocianin and inhibits the formation of fluorescein.

Code Number:	**KAA20500, KAA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 44 g in one litre of distilled water. Add 10 ml of Glycerol Supplement (GLC80100) and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position.

Formula in g/l

Peptones	19,6
Potassium sulphate	10,0
Magnesium chloride	1,4
Agar	13,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Pseudomonas aeruginosa*

References: King et al. (1954) J. Lab. and Clin. Med. 44: 301.
United States Pharmacopoeia XXVIII. (2005)

KING B AGAR BASE, USP

A differential medium for the detection of *Pseudomonas aeruginosa* on the basis of pigment production according to USP. KING B agar enhances the production of fluorescein and inhibits the formation of piocianin.

Code Number:	**KAB20500, KAB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 36 g in one litre of distilled water. Add 10 ml of Glycerol Supplement (GLC80100) and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position.

Formula in g/l

Peptones	20,0
Magnesium sulphate	1,5
Buffers	1,5
Agar	13,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Pseudomonas aeruginosa*

References: King et al. (1954) J. Lab. and Clin. Med. 44: 301.
United States Pharmacopoeia XXVIII. (2005)

KLIGLER IRON AGAR

A differential medium for the differentiation of Gram-negative enteric bacteria on the basis of carbohydrate fermentation and hydrogen sulphite production.

Code Number:	**KIA20500, KIA25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 56 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position to form slant with deep butt.

Formula in g/l

Peptones	26,40
Lactose	10,00
Glucose	1,00
Sodium chloride	5,00
Sodium thiosulphate	0,30
Ferric citrate	0,30
Phenol red	0,05
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Salmonella Enteritidis, Shigella flexneri*

References: Kligler (1917) Am. J. Pub. Hlth. 7: 1042.

KLIMMER AGAR

A selective medium for the detection and enumeration of coliforms.

Code Number:	**KLA20500, KLA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,3 (approx.) at 25 °C**

Direction: Suspend 46 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	15,20
Lactose	12,00
Sodium chloride	3,60
Acriflavine	0,06
Bromothymol blue	0,20
Agar	15,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Salmonella enteritidis*
Negative control: *Staphylococcus aureus*

KOSER CITRATE BROTH

A differential medium for the differentiation of Gram-negative bacteria on the basis of citrate utilisation.

Code Number:	**KSB20500, KSB25000**
Colour:	**White**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,7 (approx.) at 25 °C**

Direction: Suspend 6 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Sodium citrate	3,000
Magnesium sulphate	0,200
Phenol red	0,015
Buffers	2,800

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterobacter aerogenes*
Negative control: *Escherichia coli*

References: Koser (1923) J. Bacteriol. 8: 493.

LACTOSE BROTH, PH EUR

A differential medium for the cultivation and presumptive identification of coliforms according to PH EUR (Broth Medium D).

Code Number:	**LAB20500, LAB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,9 (approx.) at 25 °C**

Direction: Suspend 13 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes. Cool quickly!

Formula in g/l

Gelatin peptone	5
Beef extract	3
Lactose monohydrate	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Enterobacter aerogenes*
Negative control: *Enterococcus faecalis*

References: European Pharmacopoeia 5.6

LACTOSE PEPTONE BROTH, DEV

A differential medium for the cultivation and enumeration of coliforms.

Code Number:	**LPB20500, LPB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 35 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes. Cool quickly!

Formula in g/l

Peptones	20,00
Lactose	10,00
Sodium chloride	5,00
Bromocresol purple	0,02

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Salmonella typhimurium*

References: DEV (1963) Bundesgesetzbl., Teil I: 2613444.

LACTOSE SULPHITE BROTH BASE, PH EUR

A differential medium for the determination of H_2S production by *Clostridium perfringens* according to PH EUR (Broth Medium R).

Code Number:	**LSU20500, LSU25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 10,15 g in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 10 drops (0,5 ml) of Sodium Metabisulphite Solution, Sterile (SMS80030) and 10 drops (0,5 ml) of Ferric Ammonium Citrate Solution, Sterile (FAC80030). Mix well and dispense aseptically into sterile test tubes fitted with Durham tubes.

Formula in g/l

Casein peptone	5,0
Yeast extract	2,5
Lactose monohydrate	10,0
Sodium chloride	2,5
L-Cysteine	0,3

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Clostridium perfringens*

References: European Pharmacopoeia 5.6

LACTOSE (1%) PHENOL RED BROTH

A differential medium for the cultivation and presumptive identification of coliforms.

Code Number:	**LFB20500, LFB25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 25 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 115 °C for 15 minutes. Cool quickly!

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	10,00
Lactose	10,00
Sodium chloride	5,00
Phenol red	0,01

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Salmonella typhimurium*

References: Murray et al. (1995) Manual of clinical Microbiology, 6th ed.

LAURIA-BERTANI BROTH

A non-selective medium for molecular genetics studies.

Code Number:	**LBB20500, LBB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,5 (approx.) at 25 °C**

Direction: Suspend 25 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Casein peptone	10
Yeast extract	5
Sodium chloride	10

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

LAURYL SULPHATE BROTH

A selective enrichment medium for the detection of coliform bacteria.

Code Number:	**LSB20500, LSB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 35 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptose	19,5
Lactose	5,0
Sodium chloride	5,0
Sodium lauryl sulphate	0,1
Buffers	5,4

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Salmonella enteritidis*
Negative control: *Enterococcus faecalis*

References: APHA (1976) Compendium of Methods for the Microbiological Examination of Foods

NEW PRODUCT

LAURYL TRYPTOSE MANNITOL BROTH

A selective medium for the detection and enumeration of coli-forms according to ISO standards.

Code Number:	**LTM20500, LTM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 36 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes.

FORMULA in g/l

Tryptose	20,0
L-Tryptophan	0,2
Mannitol	5,0
Sodium chloride	5,0
Sodium lauryl sulphate	0,1
Buffers	5,7

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli*
Negative control: Enterococcus faecalis

References: ISO 4831: 1991; ISO 7251: 1993

RENEWED PRODUCT

LEGIONELLA (CYE) AGAR BASE

A selective medium for the isolation of legionellae.

Code Number:	**CYE20500, CYE25000**
Colour:	**Black**
Appearance:	**Homogeneous hygroscopic powder**
pH after autoclaving:	**6,9 (approx.) at 25 °C**

Direction: Suspend 3,6 g in 100 ml or 18 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C. In case of 100 ml add aseptically one vial of Legionella BCYE Growth Supplement with Cysteine (LGF80005-01) or Legionella BCYE Growth Supplement without Cysteine (LWC80005-01). In case of 500 ml add aseptically one vial of Legionella BCYE Growth Supplement with Cysteine (LGF80005-02) or Legionella BCYE Growth Supplement without Cysteine (LWC80005-02). Mix well before pouring.

For the preparation of selective agar in case of 100 ml add 5 ml of dis-tilled water to one vial of Legionella Selective Supplement, BMPA (BMP80005-01) or Legionella Selective Supplement, GVPC (GVP80005-01) or Legionella Selective Supplement, MWY (MWY80005-01). Shake well and add to the medium. Mix well before pouring. In case of 500 ml add 5 ml of distilled water to one vial of Legionella Selective Supplement, BMPA (BMP80005-02) or Legionella Selective Supplement, GVPC (GVP80005-02) or Legionella Selective Supplement, MWY (MWY80005-02). Shake well and add to the medium. Mix well before pouring.

Formula in g/l

Yeast extract	10
Charcoal	2
ACES Buffer	10
α-ketoglutarate	1
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Legionella pneumophila*
Negative control: *Escherichia coli, Staphylococcus aureus*

References: Feeley et al. (1979) J. Clin. Micr. 10: 437.
Dennis et al. (1984) Am. Soc. Microbiol. Pp. 294.

LETHEEN AGAR BASE

A highly nutritious medium that neutralizes quaternary ammonium compounds, for the sampling of environmental surfaces that have been treated with disinfectants.

Code Number:	**LTA20500, LTA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 58 g in one litre of distilled water. Add 5 ml of TWEEN 80 Supplement (TWS80100). Mix well and keep the suspension at about 50 °C until the lecithin dissolved completely (20-30 min). Heat with frequent agitation until the medium boils well. The ready medium is yellowish and slightly turbid, but exempt from any precipitate. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	32,2
Sodium chloride	5,0
Sodium bisulphite	0,1
Lecithin	0,7
Agar	20,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Staphylococcus aureus*

References: FDA (1992) Microbiological Methods for Cosmetics. Chapter 23.

LETHEEN BROTH BASE

A highly nutritious medium that neutralizes quaternary ammonium compounds, for the sampling of environmental surfaces that have been treated with disinfectants.

Code Number:	**LTB20500, LTB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 38 g in one litre of distilled water. Add 5 ml of TWEEN 80 Supplement (TWS80100). Mix well and keep the suspension at about 50 °C until the lecithin dissolved completely (20-30 min). The ready medium is yellowish and slightly turbid, but exempt from any precipitate. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	32,2
Sodium chloride	5,0
Sodium bisulphite	0,1
Lecithin	0,7

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Staphylococcus aureus*

References: FDA (1992) Microbiological Methods for Cosmetics. Chapter 23.

LEUCONOSTOC AGAR

A differential medium for the cultivation of *Leuconostoc* spp.

Code Number:	**LEA20500, LEA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,0 (approx.) at 25 °C**

Direction: Suspend 184 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes

Formula in g/l

Peptones	15,8
Sucrose	150,0
Sodium chloride	1,0
Magnesium sulphate	0,2
Buffers	2,0
Agar	15,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Leuconostoc mesenteroides*

References: Atlas and Parks (1993) Handbook of Microbiological Media

LINDEN-GRAIN BROTH

A sterility test medium for the cultivation of environmental micro-organisms, e.g. from beverage bottles.

Code Number:	**LGB20500, LGB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**4,2 (approx.) at 25 °C**

Direction: Suspend 29,5 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	5,5
Glucose	20,0
Ammonium sulphate	2,0
Magnesium sulphate	1,0
Buffers	1,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Candida albicans, Saccharomyces cerevisiae*

LISTERIA ENRICHMENT BROTH

A selective enrichment broth for the detection of *Listeria monocytogenes.*

Code Number:	**LEN20500, LEN25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 36 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	26,000
Glucose	2,500
Sodium chloride	5,000
Acriflavine	0,015
Cycloheximide	0,050
Nalidixic acid	0,040
Buffers	2,400

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Listeria monocytogenes*
Negative control: *Staphylococcus aureus*

References: Lovett et al. (1987) J. Food Protection 50: 188.

LISTERIA ENRICHMENT BROTH, BUFFERED

A selective enrichment broth for the detection of *Listeria monocytogenes.*

Code Number:	**LEB20500, LEB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 47 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	26,000
Glucose	2,500
Sodium chloride	5,000
Acriflavine	0,015
Cycloheximide	0,050
Nalidixic acid	0,040
Buffers	13,500

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Listeria monocytogenes*
Negative control: *Staphylococcus aureus*

References: Lovett et al. (1987) J. Food Protection 50: 188.

LISTERIA ENRICHMENT BROTH BASE, UVM - FRASER

A selective enrichment medium for the isolation of *Listeria* spp.

Code Number:	**LEF20500, LEF25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 27,5 g in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of supplements below reconstituted with 4 ml of 1:1 mixture of ethanol and sterile distilled water. Mix well. Dispense aseptically into sterile final containers.
– for UVM I Broth: Listeria Selective Supplement, UVM I (LU180004)
– for UVM II Broth: Listeria Selective Supplement, UVM II (LU280004)
– for Half Fraser Broth: Listeria Selective Supplement, Half Fraser (LSH80004)
– for Fraser Broth: Listeria Selective Supplement, Fraser (LSF80004)

Formula in g/l

Proteose peptone	5
Tryptone	5
Beef extract	5
Yeast extract	5
Sodium chloride	20
Lithium chloride	3
Esculin	1
Disodium hydrogen phosphate	10
Potassium dihydrogen phosphate	1

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Listeria monocytogenes*
Negative control: *Staphylococcus aureus*

References: Fraser and Sperber (1988) J. Food Protect. 51: 762.
ISO 11290-1: 1997
APHA (2001) Compendium of Methods for the Microbiological Examination of Foods, 4th ed.

LISTERIA SELECTIVE AGAR BASE, OXFORD

A selective and differential medium for the detection of *Listeria monocytogenes.*

Code Number:	**LAO20500, LAO25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 29,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Listeria Selective Supplement, Oxford (LSO80004) reconstituted with 4 ml of 1:1 mixture of ethanol and sterile distilled water. Mix well before pouring.

Formula in g/l	
Nutrient substrate (peptones, extracts)	23,5
Starch soluble	1,0
Lithium chloride	15,0
Sodium chloride	5,0
Ferric ammonium citrate	0,5
Esculin	1,0
Agar	13,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Listeria monocytogenes*
Negative control: *Staphylococcus aureus*

References: Curtis et al. (1989) Letters in Appl. Microbiol. 8: 95.

LISTERIA SELECTIVE AGAR BASE, PALCAM

A selective and differential medium for the detection of *Listeria monocytogenes.*

Code Number:	**LAP20500, LAP25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 36 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Listeria Selective Supplement, Palcam (LSP80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula in g/l	
Nutrient substrate (peptones, extracts)	26,00
Mannitol	10,00
Glucose	0,50
Starch soluble	1,00
Lithium chloride	15,00
Sodium chloride	5,00
Ferric ammonium citrate	0,60
Esculin	0,80
Phenol red	0,08
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Listeria monocytogenes*
Negative control: *Staphylococcus aureus*

References: van Netten et al. (1989) Int. J. Food Micr. 8: 299.

LIVER BROTH

An enrichment medium for the cultivation of anaerobe bacteria.

Code Number:	**LVB20500, LVB25000**
Colour:	**Brownish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 112 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final container and sterilise by autoclaving at 121 °C for 15 minutes.

FORMULA in g/l	
Liver extract	100
Peptones	10
Starch soluble	1
Buffers	1

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Clostridium perfringens*

References: APHA (2001) Compendium of Methods for the Microbiological Examination of Foods, 4th ed.

LOEFFLER MEDIUM BASE

A non-selective medium for the cultivation and isolation of *Corynebacterium* spp.

Code Number:	**LOE20500, LOE25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,6 (approx.) at 25 °C**

Direction: Suspend 26 g in 250 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add 750 ml of sterile bovine serum. Mix thouroughly and dispense into sterile test tubes. Inspissate for serum coagulation in slanted position at 85 °C for 120 min.

Formula in g/l	
Nutrient substrate (peptones, extracts)	16
Glucose	7
Sodium chloride	3

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Corynebacterium diphtheriae*

References: Loeffler (1897) Zentralbl. Bakteriol. 2: 102.

LOEWENSTEIN-JENSEN MEDIUM BASE

A strongly selective medium for the cultivation of *Mycobacterium tuberculosis* and other *Mycobacterium* spp.

Code Number:	**LJM20500, LJM25000**
Colour:	**Greenish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,1 (approx.) at 25 °C**

Direction: Suspend 38 g in 590 ml of distilled water. Add 12 ml of Glycerol Supplement (GLC80100). Mix well and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 1000 ml of sterile mixed whole egg. Mix gently until the mixture is uniform and without bubbles. Dispense into sterile test tubes. Coagulate and inspissate in slanted position at 85 °C for 45 min.

Formula in g/1600 ml

Potato flour	30,00
Sodium citrate	0,60
Magnesium sulphate	0,24
L-Asparagine	3,60
Malachite green	0,40
Buffer	3,16

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Mycobacterium tuberculosis*

References: Jensen (1932) Zentralbl. Bakteriol. Parastenkd. Infektionskr. Hyg. Abt. I Orig. 125: 222.

LYSINE DECARBOXYLASE BROTH

See: Culture Media for Amino Acid Decomposition Studies (page 13)

LYSINE IRON (LIA) AGAR

A differential medium for the differentiation of Gram-negative enteric bacteria on the basis of lysine decarboxylate and hydrogen sulphite production.

Code Number:	**LIA20500, LIA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,7 (approx.) at 25 °C**

Direction: Suspend 33 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position to form slant with deep butt.

Formula in g/l

Peptones	8,00
Glucose	1,00
Sodium thiosulphate	0,04
Ferric citrate	0,50
L-Lysine	10,00
Bromocresol purple	0,02
Agar	13,50

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Salmonella enteritidis, Proteus mirabilis, Citrobacter freundii*

References: Edwards and Fife (1961) Appl. Microbiol. 9: 478.

LURIA AGAR

A non-selective medium for molecular genetics studies.

Code Number:	**LBA20500, LBA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 38 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Casein peptone	10
Yeast extract	5
Sodium chloride	10
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: Miller (1972) Experiments in Molecular Genetics.

M17 AGAR

A selective medium for the cultivation and enumeration of lactic streptococci.

Code Number:	**M1A20500, M1A25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,9 (approx.) at 25 °C**

Direction: Suspend 55 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	17,25
Lactose	5,00
Magnesium sulphate	0,25
Ascorbic acid	0,50
Sodium glycerophosphate	19,00
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Streptococcus agalactiae*

References: Terzaghi and Sandine (1975) Applied Microbiol. 29: 807.

M17 BROTH

A selective medium for the cultivation and enumeration of lactic streptococci.

Code Number:	**M1B20500, M1B25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,9 (approx.) at 25 °C**

Direction: Suspend 42 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	17,25
Lactose	5,00
Magnesium sulphate	0,25
Ascorbic acid	0,50
Sodium glycerophosphate	19,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Streptococcus agalactiae*

References: Terzaghi and Sandine (1975) Applied Microbiol. 29: 807.

NEW PRODUCT

M-FC AGAR BASE

A selective and differential medium for the detection and enumeration of faecal coliforms by membrane filtration.

Code Number:	**MFC20500, MFC5000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 26 g in 500 ml of distilled water and heat with fre-quent agitation until the medium becomes transparent (about 90 °C). Add the content of one vial of Rosolic Acid Supplement (RAS80005) reconstituted with 5 ml of sterile distilled water. Continue heating with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

FORMULA in g/l

Peptones	18,0
Bile salts	1,5
Lactose	12,4
Sodium chloride	5,0
Aniline blue	0,1
Agar	15,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Staphylococcus aureus*

References: Geldreich et al. (1965) J. Am. Water Works Assoc. 57: 208.

NEW PRODUCT

M-FC BROTH BASE

A selective and differential medium for the detection and enumeration of faecal coliforms by membrane filtration.

Code Number:	**MFB20500, MFB5000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 18,5 g in 500 ml of distilled water. Add the content of one vial of Rosolic Acid Supplement (RAS80005) reconstituted with 5 ml of sterile distilled water. Mix well and heat with frequent agitation until the medium boils well.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

FORMULA in g/l

Peptones	18,0
Bile salts	1,5
Lactose	12,4
Sodium chloride	5,0
Aniline blue	0,1

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Staphylococcus aureus*

References: Geldreich et al. (1965) J. Am. Water Works Assoc. 57: 208.

M-GREEN AGAR

A selective and differential medium for the detection of fungi.

Code Number:	**MGA20500, MGA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 87 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	19,900
Glucose	50,000
Magnesium sulphate	2,000
Diastase	0,050
Thiamine HCl	0,050
Bromocresol green	0,026
Buffers	2,000
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Saccharomyces cerevisiae, Aspergillus niger*

References: Lenette et al. (1985) Manual of Microbiol., 4th ed.

M-GREEN BROTH

A selective and differential medium for the detection of fungi.

Code Number:	**MGB20500, MGB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 74 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	19,900
Glucose	50,000
Magnesium sulphate	2,000
Diastase	0,050
Thiamine HCl	0,050
Bromocresol green	0,026
Buffers	2,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Saccharomyces cerevisiae, Aspergillus niger*

References: Lenette et al. (1985) Manual of Microbiol., 4th ed.

MACCONKEY AGAR BASE, SORBITOL

A selective and differential medium for the detection of *Escherichia coli 0157*.

Code Number:	**MCS20500, MCS25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 26 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Cefixime Tellurite Selective Supplement (CTS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula in g/l

Peptones	20,500
Bile salts No.3	1,500
Sorbitol	10,000
Sodium chloride	5,000
Neutral red	0,030
Crystal violet	0,001
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli 0157*
Negative control: *Escherichia coli*

References: ISO 16654: 2001

MACCONKEY AGAR No.3

A selective and differential medium for the detection of coliform bacteria and enteric pathogens.

Code Number:	**MCA20500, MCA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 52 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,500
Bile salts No.3	1,500
Lactose	10,000
Sodium chloride	5,000
Neutral red	0,030
Crystal violet	0,001
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Shigella sonnei, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: MacConkey (1900) The Lancet

MACCONKEY AGAR, PH EUR – USP

A selective and differential medium for the detection of coliform bacteria and enteric pathogens according to PH EUR (Agar Medium H - Harmonised).

Code Number:	**MCE20500, MCE25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 50 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Gelatin peptone	17,000
Peptones	3,000
Bacteriological bile	1,500
Lactose monohydrate	10,000
Sodium chloride	5,000
Neutral red	0,030
Crystal violet	0,001
Agar	13,500

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Shigella sonnei, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: European Pharmacopoeia 5.6

MACCONKEY AGAR WITHOUT CRYSTAL VIOLET

A selective and differential medium for the detection of coliform bacteria and enteric pathogens as well as some *Staphylococcus* spp.

Code Number:	**MWC20500, MWC25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 52 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,50
Bile salts No.3	1,50
Lactose	10,00
Sodium chloride	5,00
Neutral red	0,03
Agar	15,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Shigella sonnei, Proteus mirabilis, Staphylococcus aureus*
Negative control: *Enterococcus faecalis*

References: MacConkey (1900) The Lancet

MACCONKEY BROTH

A differential medium containing neutral red for the detection of coliform bacteria.

Code Number:	**MCB20500, MCB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 37 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes

Formula in g/l

Peptones	20,50
Bile salts No.3	1,50
Lactose	10,00
Sodium chloride	5,00
Neutral red	0,03

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: WHO (1963) Int. Stand. for Drinking Water

MACCONKEY AGAR WITHOUT SALT

A selective and differential medium for the isolation and enumeration of micro-organisms from urine. The medium is electrolyte deficient to prevent the swarming of the most *Proteus* spp.

Code Number:	**MWS20500, MWS25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 47 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,500
Bile salts No.3	1,500
Lactose	10,000
Neutral red	0,030
Crystal violet	0,001
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Shigella sonnei, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: MacConkey (1900) The Lancet

MACCONKEY BROTH, PH EUR – USP

A differential medium for the detection of coliform bacteria according to PH EUR (Broth Medium G - Harmonised).

Code Number:	**MBE20500, MBE25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 35 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Gelatin peptone	20,00
Bacteriological bile	5,00
Lactose monohydrate	10,00
Bromocresol purple	0,01

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Enterococcus faecalis*

References: European Pharmacopoeia 5.6

MACCONKEY BROTH, PURPLE

A differential medium containing bromocresol purple for the detection of coliform bacteria.

Code Number:	**MBP20500, MBP25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 37 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,50
Bile salts No.3	1,50
Lactose	10,00
Sodium chloride	5,00
Bromocresol purple	0,01

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: WHO (1963) Int. Stand. for Drinking Water

MALONATE AGAR

A differential medium for the differentiation of micro-organisms on the basis of their ability to utilize malonate.

Code Number:	**MAA20500, MAA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,7 (approx.) at 25 °C**

Direction: Suspend 25 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position.

Formula in g/l

Yeast extract	1,00
Sodium malonate	3,00
Sodium chloride	2,00
Ammonium sulphate	2,00
Bromothymol blue	0,03
Buffers	1,00
Agar	16,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterobacter aerogenes*
Negative control: *Escherichia coli*

References: Lenette et al. (1985) Manual of Clinical Microbiology, 4th ed.

MALACHITE GREEN BROTH BASE

A selective medium for the cultivation of *Pseudomonas aeruginosa.*

Code Number:	**MIB20500, MIB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,6 (approx.) at 25 °C**

Direction: Suspend 4,2 g in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically one dose (0,5 ml) of Malachite Green Solution, Sterile (MS080030). Mix well and dispense aseptically into sterile final containers.

Formula in g/l

Peptones	8,0
Buffer	0,4

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Pseudomonas aeruginosa*
Negative control: *Escherichia coli*

References: Habs and Kirschner (1943) Z. Hyg. 124: 557.

MALONATE BROTH

A differential medium for the differentiation of micro-organisms on the basis of their ability to utilize malonate.

Code Number:	**MAD20500, MAD25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,7 (approx.) at 25 °C**

Direction: Suspend 10 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and ster-ilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Yeast extract	2,00
Sodium malonate	3,00
Sodium chloride	2,00
Ammonium sulphate	2,00
Bromothymol blue	0,03
Buffers	1,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at at room temperature.

Quality Control:
Positive control: *Enterobacter aerogenes*
Negative control: *Escherichia coli*

References: Lenette et al. (1985) Manual of Clinical Microbiology, 4th ed.

MALT EXTRACT AGAR

A selective medium for the detection, isolation and enumeration of yeasts and moulds.

Code Number:	**MEA20500, MEA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,4 (approx.) at 25 °C**

Direction: Suspend 50 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 115 °C for 10 minutes. If it is necessary to adjust the pH 3,5 (approx.), cool to 50 °C and add aseptically Lactic Acid Solution (LAS80100) to the medium in the necessary quantity. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.
Once acidified with lactic acid, the medium should not be re-heated.

Formula in g/l

Peptones	5
Malt extract	30
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Candida albicans*
Negative control (at pH=3.5): *Bacillus cereus*

References: Galloway and Burgess (1952) Applied Mycology and Bacteriology, 3rd ed.

MALT EXTRACT BROTH

A selective medium for the cultivation of yeasts and moulds.

Code Number:	**MBR20500, MBR25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,4 (approx.) at 25 °C**

Direction: Suspend 20 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes. If it is necessary to adjust the pH 3.5 (approx.) add asepticaly Lactic Acid Solution (LAS80100) to the medium in the necessary quantity.

Formula in g/l

Peptones	5
Malt extract	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Candida albicans*
Negative control (at pH=3.5): *Bacillus cereus*

References: Galloway and Burgess (1952) Applied Mycology and Bacteriology, 3rd ed.

MANNITOL LYSINE BRILLIANT GREEN AGAR

A selective and differential medium for the isolation of salmonellae other than *S. typhi*.

Code Number:	**MLA20500, MLA25000**
Colour:	**Yellowish green**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**6,8 (approx.) at 25 °C**

Direction: Suspend 54 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Cool quickly!

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	22,0000
Mannitol	3,0000
Sodium chloride	4,0000
Sodium thiosulphate	4,0000
Ferric ammonium citrate	1,0000
L-Lysine	5,0000
Brilliant green	0,0125
Violet red	0,0100
Agar	15,0000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Escherichia coli, Proteus mirabilis, Enterococcus faecalis*

References: Inoue et al. (1968) Jap. J. Vet. Sci. 30.

NEW PRODUCT

MANNITOL MOTILITY NITRATE MEDIUM

A differential medium for the differentiation of micro-organisms, especially enterobacteriaceae, on the basis of mannitol fermentation, motility and nitrate reduction.

Code Number:	**MMN20500, MMN25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,6 (approx.) at 25 °C**

Direction: Suspend 22 g in one litre of distilled water and heat with fre-quent agitation until the medium boil well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

FORMULA in g/l

Peptones	10,00
Mannitol	7,50
Potassium nitrate	1,00
Phenol red	0,04
Agar	3,50

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room tempera-ture.

Quality Control:
Positive control: *Escherichia coli, Klebsiella pneumoniae, Proteus mirabilis, Acinetobacter anitratum*

References: MacFaddin (1980) Biochemical test for the identification of medical bacteria, 2nd ed.

MANNITOL SALT AGAR, PH EUR - USP

A selective and differential medium for the isolation and presumptive identification of pathogenic staphylococci according to PH EUR (Mannitol Salt Agar – Harmonised).

Code Number:	**MSA20500, MSA25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,5 (approx.) at 25 °C**

Direction: Suspend 110 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Casein peptone	5,000
Meat peptone	5,000
Beef extract	1,000
D-Mannitol	10,000
Sodium chloride	75,000
Phenol red	0,025
Agar	14,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Staphylococcus aureus, Staphylococcus epidermidis*
Negative control: *Escherichia coli*

References: Chapman (1945) J. Bact. 50: 201.
European Pharmacopoeia 5.6

MEAT EXTRACT BROTH

A general purpose medium for the cultivation of micro-organisms.

Code Number:	**MEX20500, MEX25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 8 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and ster-ilise by autoclaving at 121°C for 15 minutes.

Formula in g/l

Peptones	11
Sodium chloride	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at at room temperature.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: APHA (1980) Standard Methods for the Examination of Water and Wastewater

MAXIMUM RECOVERY DILUENT

A protective and isotonic diluent for maximum recovery of micro-organisms.

Code Number:	**MRD20500, MRD25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 9,5 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	1,0
Sodium chloride	8,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature

Quality Control:
Positive control: *Escherichia coli*

References: Straker and Stokes (1957) J. Appl. Bact. 26: 493.

MEMBRAN LAURYL SULPHATE (MLSB) BROTH

A selective medium for the enumeration of coliform micro-organisms and *Escherichia coli*.

Code Number:	**MLS20500, MLS25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 76 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Cool quickly!

Formula in g/l

Peptone	44,8
Lactose	30,0
Sodium lauryl sulphate	1,0
Buffers	0,2

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Bacillus subtilis*

References: Burnhan (1967) Proc. Soc. Wat. Treat. Exam. 16: 40.

MOTILITY AGAR

A semi-solide differential medium for the detection of motility of Gram-negative enteric bacilli.

Code Number:	**MOA20500, MOA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 22 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	13,00
Sodium chloride	5,00
2,3,5-Triphenyltetrazolium chloride	0,05
Agar	4,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Shigella flexneri*

References: Tittsler and Sandholzer (1936) J. Bacteriol. 31: 575.

NEW PRODUCT

MOTILITY INDOLE LYSINE (MIL) MEDIUM

A differential medium for the differentiation of micro-organisms, especially enterobacteriaceae, on the basis of motility, indole production, lysine deaminase and lysine decarboxylase reactions.

Code Number:	**MIL20500, MIL25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,6 (approx.) at 25 °C**

Direction: Suspend 36 g in one litre of distilled water and heat with fre-quent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

FORMULA in g/l

Peptones	22,50
L-Lysine	10,00
Glucose	1,00
Ferric ammonium citrate	0,50
Bromocresol purple	0,02
Agar	2,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room tempera-ture.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis, Salmonella typhimurium, Shigella sonnei*

References: Reller and Mirrett (1975) J. Clin. Microbiol. 2: 247.

MOTILITY INDOLE UREA (MIU) MEDIUM

A differential medium for the differentiation of micro-organisms, especially the Enterobacteriaceae, on the basis of the motility, indole production and urease activity.

Code Number:	**MIU20500-M**
Packaging:	**380 g medium base + 120 g urea**
Appearance – agar base:	**Pinkish, homogeneous, hygroscopic powder**
Appearance – urea:	**White pellet**
pH before autoclaving:	**6,4 - 6,6 at 25 °C**
pH after autoclaving:	**6,6 - 7,0 at 25 °C**

Direction: Suspend 32 g medium base and 10 g urea in one litre of distilled water and heat with frequent agitation until the medium boil well. Dispense into test tubes and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula of ready medium g/l

Peptones	11,000
Sodium chloride	5,000
Urea	20,000
Phenol red	0,012
Buffers	3,000
Agar	3,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Proteus mirabilis, Escherichia coli, Shigella sonnei*

References: Roland at al. (1947) Ann. Inst. Pasteur 73: 914.
Christensen (1946) J. Bact. 52: 461.

M-PA-B AGAR

A selective and differential medium for the selective recovery and enumeration of *Pseudomonas aeruginosa* from strongly contaminated samples.

Code Number:	**MPB20500, MPB25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,2 (approx.) at 25 °C**

Direction: Suspend 39 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Cool quickly! Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Yeast extract	2,000
Xylose	1,250
Lactose	1,250
Sucrose	1,250
Sodium chloride	5,000
Sodium thiosulphate	5,000
Magnesium sulphate	1,500
Ferric ammonium citrate	0,800
L-Lysine	5,000
Sulphapyridine	0,170
Cycloheximide	0,150
Nalidixic acid	0,037
Kanamycin	0,008
Phenol red	0,080
Agar	15,500

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but better to use it freshly.

Quality Control:
Positive control: *Pseudomonas aeruginosa*
Negative control: *Escherichia coli*

References: Levin and Cabelli (1972) Appl. Microbiol. 24: 864.

M-PA-C AGAR

A selective and differential medium for the selective recovery and enumeration of *Pseudomonas aeruginosa* from slightly contaminated samples.

Code Number:	**MPA20500, MPA25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,2 (approx.) at 25 °C**

Direction: Suspend 38 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Cool quickly! Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Yeast extract	2,000
Xylose	1,250
Lactose	1,250
Sucrose	1,250
Sodium chloride	5,000
Sodium thiosulphate	5,000
Magnesium sulphate	1,500
Ferric ammonium citrate	0,800
L-Lysine	5,000
Nalidixic acid	0,037
Kanamycin	0,008
Phenol red	0,080
Agar	14,800

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but better to use it freshly.

Quality Control:
Positive control: *Pseudomonas aeruginosa*
Negative control: *Escherichia coli*

References: Levin and Cabelli (1972) Appl. Microbiol. 24: 864.

MRS AGAR BASE

A low selective medium for the isolation and cultivation of *Lactobacillus* spp.

Code Number:	**MRA20500, MRA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,2 (approx.) at 25 °C**

Direction: Suspend 63 g in one litre of distilled water. Add 10 ml of MRS Supplement (MRC80100). Mix well and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Warning!
To ensure the homogeneity shake well the supplement before use.

Formula in g/l

Peptones	25,50
Glucose	20,00
Ammonium citrate	2,00
Magnesium sulphate	0,20
Manganese sulphate	0,05
Buffers	2,25
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Lactobacillus acidophilus*
Negative control: *Staphylococcus aureus*

References: DeMan, Rogosa and Sharpe (1960) J. Appl. Bact. 23: 30.

MRS BROTH BASE

A low selective medium for the cultivation of *Lactobacillus* spp.

Code Number:	**MRB20500, MRB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,2 (approx.) at 25 °C**

Direction: Suspend 50 g in one litre of distilled water. Add 10 ml of MRS Supplement (MRC80100). Mix well and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Warning!
To ensure the homogeneity shake well the supplement before use.

Formula in g/l

Peptones	25,50
Glucose	20,00
Ammonium citrate	2,00
Magnesium sulphate	0,20
Manganese sulphate	0,05
Buffers	2,25

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Lactobacillus acidophilus*
Negative control: *Staphylococcus aureus*

References: DeMan, Rogosa and Sharpe (1960) J. Appl. Bact. 23: 30.

MRVP BROTH

A differential medium for the differentiation of bacteria on the basis of the methyl red and Voges-Proskauer reactions.

Code Number:	**MVP20500, MVP25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 17 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Cool quickly!

Formula in g/l

Peptones	7
Glucose	5
Buffers	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control:
Methyl red: *Escherichia coli*
Voges-Proskauer: *Enterobacter aerogenes*
Negative control:
Methyl red: *Enterobacter aerogenes*
Voges-Proskauer: *Escherichia coli*

References: Voges and Proskauer (1898) Z. Hyg. 28: 20.

MRSA SCREEN AGAR BASE

A selective medium for the presumptive identification of MRSA.

Code Number:	**MRS20500, MRS25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 39 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of MRSA Selective Supplement (MSS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula in g/l

Peptones	19,5
Starch soluble	1,5
Sodium chloride	40,0
Agar	17,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *MRSA*
Negative control: *MSSA*

MUELLER-HINTON II AGAR

An antimicrobial susceptibility testing medium which fits to the requirements of NCCLS. Medium has extremly low concentrations of thymine and thymidine as well as appropriate levels of calcium and magnesium ions.

Code Number:	**MHT20500, MHT25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2-7,4 at 25 °C**

Direction: Suspend 38 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	19,5
Starch soluble	1,5
Agar	17,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Pseudomonas aeruginosa, Escherichia coli, Staphylococcus aureus, Enterococcus faecalis*

References: Mueller and Hinton (1941) Proc. Soc. Exp. Biol. Med. 48: 330.

MUELLER-HINTON AGAR, FUNGI

A standard medium for the antimycotical susceptibility testing.

Code Number:	**MHF20500, MHF25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 58 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	19,5000
Glucose	20,0000
Starch soluble	1,5000
Methylene blue	0,0005
Agar	17,0000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Candida albicans*

References: Mueller-Hinton (1941) Proc. Soc. Exp. Biol. Med. 48: 330.

RENEWED PRODUCT

MUELLER-HINTON II BROTH

An antimicrobial susceptibility testing medium, which may be used in internationally recognised standard procedures. The medium has extremely low concentrations of thymine and thymidine as well as appropriate levels of calcium and magnesium ions.

Code Number:	**MHC20500, MHC25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 21 g in one litre of distilled water and heat with fre-quent agitation until the starch dissolve completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

FORMULA in g/l

Peptones	19,5
Starch soluble	1,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Pseudomonas aeruginosa, Escherichia coli, Staphylococcus aureus, Enterococcus faecalis*

References: Mueller and Hinton (1941) Proc. Soc. Exp. Biol. Med. 48: 330.

MYCOPLASMA (PPLO) AGAR BASE

A highly nutritious medium for the preparation of media for cultivation of mycoplasmae.

Code Number:	**MYA20500, MYA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,8 (approx.) at 25 °C**

Direction: Suspend 17,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add enrichments (horse serum, specially prepared yeast extract). For a selective medium (which inhibits bacteria) add inhibitors (thallium acetate and antibiotics). Mix well before pouring.

Formula in g/l

Nutrient substrate (heart infusion, peptones)	16
Sodium chloride	5
Agar	14

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Mycoplasma pneumoniae*

References: Morton et al. (1951) Am. J. Syphil. Gonorrh. Vener. Dis. 35: 361.

MYCOPLASMA (PPLO) BROTH BASE

A highly nutritious medium for the preparation of media for cultivation of mycoplasmae.

Code Number:	**MYB20500, MYB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,8 (approx.) at 25 °C**

Direction: Suspend 10,5 g in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add enrichments (horse serum, specially prepared yeast extract). For a selective medium (which inhibits bacteria) add inhibitors (thallium acetate and antibiotics). Mix well. Dispense aseptically into sterile final containers.

Formula in g/l

Nutrient substrate (heart infusion, peptones)	16
Sodium chloride	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Mycoplasma pneumoniae*

References: Morton et al. (1951) Am. J. Syphil. Gonorrh. Vener. Dis. 35: 361.

NEUTRALISING FLUID BASE, PH EUR

An inactivating solution for the neutralisation of the activity of the antimicrobial agents according to PH EUR.

Code Number:	**NSE20500, NSE25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 20,1 g in one litre of distilled water. Add 30 ml of TWEEN 80 Supplement (TWS80500). Mix well and keep the suspension at about 50 °C until the lecithin completely dissolved (20-30 min). The ready broth is yellowish and slightly turbid, but exempt from any precipitate. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptone	1,0
Sodium chloride	4,3
Histidin HCl	1,0
Lecithin	3,0
Disodium hydrogen phosphate	7,2
Potassium dihydrogen phosphate	3,6

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Staphylococcus aureus*

References: European Pharmacopoeia 5.6

NUTRIENT AGAR

A general purpose medium for the cultivation of non-fastidious micro-organisms.

Code Number:	**NUA20500, NUA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 29 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	11
Sodium chloride	5
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: APHA (1917) Standard methods of water analysis, 3rd ed.

NITRATE BROTH

A differential medium for the detection of nitrate reduction.

Code Number:	**NIT20500, NIT25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 12 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10
Potassium nitrate	2

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Pseudomonas aeruginosa, Escherichia coli*
Negative control: *Enterococcus faecalis*

References: MacFaddin (1980) Biochemical Tests for the Identification of Medical Bacteria, 2nd ed.

NUTRIENT AGAR, DEV

A general purpose medium for determing total microbial count of water according to DEV.

Code Number:	**NUD20500, NUD25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 43 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Meat peptone	10
Meat extract	10
Sodium chloride	5
Agar	18

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: DEV

NUTRIENT BROTH

A general purpose medium for the cultivation of non-fastidious micro-organisms.

Code Number:	**NUB20500, NUB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 16 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	11
Sodium chloride	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: APHA (1985) Standard Methods for the Examination of Water and Wastewater

NUTRIENT BROTH No.2

A general purpose medium for the cultivation of micro-organisms.

Code Number:	**NUN20500, NUN25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 25 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20
Sodium chloride	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: British Pharmacopoeia (1980)

NUTRIENT BROTH, DEV

A general purpose medium for determing total microbial count of water according to the DEV.

Code Number:	**NBD20500, NBD25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 25 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121°C for 15 minutes.

Formula in g/l

Peptones	10
Meat extract	10
Sodium chloride	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: DEV

NUTRIENT GELATIN MEDIUM

A differential medium for determining of gelatinase production by proteolytic micro-organisms.

Code Number:	**GEM20500, GEM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 128 g in one litre of distilled water and heat with frequent agitation until the medium dissolved completely. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	8
Gelatin	120

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Staphylococcus aureus*
Negative control: *Escherichia coli*

References: APHA (1960) Standard Methods for the Examination of Water and Sewage

NUTRIENT YEAST GLUCOSE AGAR

A general purpose medium for the cultivation of micro-organisms.

Code Number:	**NYG20500, NYG25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 30 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	7
Yeast extract	5
Gucose	1
Sodium chloride	4
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus, Saccharomyces cerevisiae*

References: Turner at al. (1984)

RENEWED PRODUCT

ORANGE SERUM AGAR BASE

A selective medium for the cultivation and enumeration of micro-organisms in citrus juice concentrates.

Code Number:	**OSA20400, OSA24000**
Packaging:	**400 g agar base + 2 litre sterile, filtered, pH adjusted orange juice**
Appearance – agar base:	**Yellowish, homogeneous hygroscopic powder**
Appearance – orange juice:	**Orange coloured liquid**
pH before autoclaving:	**5,5 (approx.) at 25 °C**

Direction: Suspend 20 g in 400 ml of distilled water. Mix well and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Coll to 50 – 60 °C and add aseptically 100 ml of orange juice. Mix well before pouring.

Warning!
For sufficient accuracy it is enough to apply the 100 ml scale
on the bottle of the orange juice.

Formula in g/l

Peptones	18
Glucose	4
Buffers	3
Agar	15

Storage conditions: Store the dehydrated medium and orange juice tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Lactobacillus acidophilus, Saccharomyces cerevisiae*

References: APHA (1976) Compendium of Methods for Microbiological Examination of Foods, 4th ed.

RENEWED PRODUCT

ORANGE SERUM BROTH BASE

A selective medium for the cultivation of micro-organisms in citrus juice concentrates.

Code Number:	**OSB20250, OSB22500**
Packaging:	**250 g broth base + 2 litre sterile, filtered, pH adjusted orange juice**
Appearance – broth base:	**Yellowish, homogeneous hygro-scopic powder**
Appearance – orange juice:	**Orange coloured liquid**
pH before autoclaving:	**5,5 (approx.) at 25 °C**

Direction: Suspend 12,5 g in 400 ml of distilled water. Mix well and heat gently to dissolve the medium completely. Add 100 ml of orange juice. Mix well and dispense into final containers. Sterilise by autoclav-ing at 115 °C for 15 minutes.

Warning!
The orange juice is heat sensitive.
No further sterilisation is neccessary or desirable.
For sufficient accuracy it is enough to apply the 100 ml scale
on the bottle of the orange juice.

Formula in g/l

Peptones	18
Glucose	4
Buffers	3

Storage conditions: Store the dehydrated medium and orange juice tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Lactobacillus acidophilus, Saccharomyces cerevisiae*

References: APHA (1976) Compendium of Methods for Microbiological Examination of Foods, 4th ed.

OXYTETRACYCLINE GLUCOSE YEAST EXTRACT AGAR BASE

A selective medium for the enumeration of moulds and yeasts.

Code Number:	**OGY20500, OGY25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 19 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of OGYE Selective Supplement (OGS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula in g/l

Yeast extract	5,0000
Glucose	20,0000
Vitamin H	0,0001
Agar	13,0000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Aspergillus niger, Saccharomyces cerevisiae*
Negative control: *Escherichia coli*

References: Mossel et al. (1970) Appl. Bact. 35: 454.

ÖNÖZ AGAR

A selective and differential medium for the isolation of enteric micro-organisms, especially *Salmonella* and some *Shigella* spp.

Code Number:	**ONO20500, ONO25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,1 (approx.) at 25 °C**

Direction: Suspend 81 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring. Cool quickly!

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	16,50000
Bile salts	3,82500
Sucrose	13,00000
Lactose	11,50000
Sodium citrate	9,30000
Sodium thiosulphate	4,25000
Ferric citrate	0,50000
Magnesium sulphate	0,40000
L-Phenylalanine	5,00000
Metachrome yellow	0,47000
Aniline blue	0,25000
Neutral red	0,02200
Brilliant green	0,00166
Buffers	1,00000
Agar	15,00000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Salmonella enteritidis, Shigella sonnei, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: Önöz (1978) Zbl. Bakt. Hyg. A240: 16.

PEPTONE WATER

A liquid medium base for carbohydrate fermentation studies.

Code Number:	**PEW20500, PEW25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 15 g in one litre of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add the filter sterilised indicator and solution of the sugar (10 g/l) to be examined to the medium. Dispense aseptically into sterile test tubes.

Formula in g/l

Peptones	10
Sodium chloride	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control: Use micro-organisms, which have known positive or negative reactions with investigated sugars.

References: Cruikshank (1968) Med. Microbiology 11th ed.

PEPTONE WATER, ALKALINE

A non selective medium for the enrichment of Vibrio spp.

Code Number:	**PEW20500-22, PEW25000-22**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**8,4 (approx.) at 25 °C**

Direction: Suspend 20 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10,00
Sodium chloride	10,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: Vibrio cholerae

References: Cruikshank (1968) Med. Microbiology 11th ed.

PEPTONE WATER WITH BROMOCRESOL PURPLE

A basal medium for carbohydrate fermentation studies.

Code Number:	**PAW20500-00, PAW25000-00**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 15 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add the filter sterilised solution of the sugar (10 g/l) to be examined to the medium.

Formula in g/l

Peptones	10,00
Sodium chloride	5,00
Bromocresol purple	0,03

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control: Use micro-organisms, which have known positive and negative reactions with investigated sugars.

References: Cruikshank (1968) Med. Microbiology 11th ed.

PEPTONE WATER, BUFFERED

A pre-enrichment medium for the isolation of *Salmonella* spp.

Code Number:	**PWB20500, PWB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 20 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10
Sodium chloride	5
Buffers	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Salmonella enteritidis*

References: APHA (1976) Compendium of Methods for the Microbiological Examination of Foods

PEPTONE WATER, DOUBLE BUFFERED

A pre-enrichment medium for the isolation of *Salmonella* spp.

Code Number:	**PWD20500, PWD25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 25 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10
Sodium chloride	5
Buffers	10

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Salmonella enteritidis*

References: ISO 6579: 1993

PEPTONE WATER, BUFFERED, PH EUR - USP

An enrichment medium for the test of microbial contamination according to PH EUR (Buffered Sodium Chloride Peptone Solution pH 7.0 - Harmonised).

Code Number:	**PBE20500, PBE25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 16 g in one litre of distilled water and heat gently to dissolve the medium completely. Surface-active agents or inactivators of antimicrobial agents may be added to this solution, such as: TWEEN 80 Supplement (TWS80100) 1 g/l to 10 g/l. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptone	1,0
Sodium chloride	4,3
Potassium dihydrogen phosphate	3,6
Disodium hydrogen phosphate	7,1

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Salmonella typhimurium*

References: European Pharmacopoeia 5.6

PERFRINGENS (OPSP) AGAR BASE

A selective and differential medium for the enumeration of *Clostridium perfringens*.

Code Number:	**POB20500, POB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 23,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial each of Perfringens Selective Supplements, OPSP, A + B (POS80004) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula in g/l

Peptones	33,5
Sodium metabisulphite	1,0
Ferric ammonium citrate	1,0
Buffers	1,5
Agar	10,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Clostridium perfringens*

References: Harmon et al. (1971) J. Appl. Microbiol. 22: 688.
Sahidi and Fergusson (1971) J. Appl. Microbiol. 21: 500.

PERFRINGENS (TSC+SFP) AGAR BASE

A selective and differential medium for the enumeration and presumptive identification of *Clostridium perfringens*.

Code Number:	**PAB20500, PAB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,6 (approx.) at 20°C**

Direction for TSC/SFP Agar:
Suspend 23,5 g in 475 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 25 ml of Sterile Egg Yolk Emulsion (EYE80025) and the contents of one vial of Perfringens Selective Supplement, TSC (PSS80004) or one vial of Perfringens Selective Supplement, SFP (PFS80004) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Direction for Egg Yolk Free TSC/SFP Agar:
Suspend 23,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Perfringens Selective Supplement, TSC (PSS80004) or Perfringens Selective Supplement, SFP (PFS80004) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula in g/l

Peptones	31
Sodium metabisulphite	1
Ferric ammonium citrate	1
Agar	14

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Clostridium perfringens*

References: Harmon et al. (1971) J. Appl. Microbiol. 22: 688.

PharmaBio® BAIRD-PARKER AGAR BASE

Code Number: **PBPA20500, PBPA25000**

See: Baird-Parker Agar Base, PH EUR

PharmaBio® BRILLIANT GREEN (BPLS) AGAR

Code Number: **PBPE20500, PBPE25000**

See: Brilliant Green (BPLS) Agar, PH EUR

PharmaBio® CASEIN PEPTONE LECITHIN POLYSORBATE BROTH BASE

Code Number: **PCLP20500, PCLP25000**

See: Casein Peptone Lecithin Polysorbate Broth Base, USP

PharmaBio® CETRIMIDE AGAR BASE

Code Number: **PCAB20500, PCAB25000**

See: Cetrimide Agar Base, PH EUR - USP

PharmaBio® COLUMBIA AGAR

Code Number: **PCLE20500, PCLE25000**

See: Columbia Agar, PH EUR - USP

PharmaBio® DEOXYCHOLATE CITRATE AGAR

Code Number: **PDCE20500, PDCE25000**

See: Deoxycholate Citrate Agar, PH EUR

PharmaBio® EE BROTH

Code Number: **PEEB20500, PEEB25000**

See: EE Broth, PH EUR - USP

PharmaBio® EOSIN METHYLENE BLUE AGAR

Code Number: **PEMB20500, PEMB25000**

See: Eosin Methylene Blue Agar, USP

PharmaBio® KING A AGAR BASE

Code Number: **PKAA20500, PKAA25000**

See: King A Agar Base, USP

PharmaBio® KING B AGAR BASE

Code Number: **PKAB20500, PKAB25000**

See: King B Agar Base, USP

PharmaBio® LACTOSE BROTH

Code Number: **PLAB20500, PLAB25000**

See: Lactose Broth, PH EUR

PharmaBio® LACTOSE SULPHITE BROTH BASE

Code Number: **PLSU20500, PLSU25000**

See: Lactose Sulphite Broth Base, PH EUR

PharmaBio® MACCONKEY AGAR

Code Number: **PMCE20500, PMCE25000**

See: MacConkey Agar, PH EUR - USP

PharmaBio® MACCONKEY BROTH

Code Number: **PMBE20500, PMBE25000**

See: MacConkey Broth, PH EUR - USP

PharmaBio® MANNITOL SALT AGAR

Code Number: **PMSA20500, PMSA25000**

See: Mannitol Salt Agar, PH EUR - USP

PharmaBio® NEUTRALISING FLUID BASE

Code Number: **PNSE20500, PNSE25000**

See: Neutralising Fluid Base, PH EUR

PharmaBio® PEPTON WATER, BUFFERED

Code Number: **PPBE20500, PPBE25000**

See: Pepton Water, Buffered, PH EUR - USP

PharmaBio® POTATO DEXTROSE AGAR

Code Number: **PPDA20500, PPDA25000**

See: Potato Dextrose Agar, PH EUR - USP

PharmaBio® R2A AGAR

Code Number: **PR2A20500, PR2A25000**

See: R2A Agar, PH EUR

PharmaBio® RAPPAPORT-VASSILIADIS BROTH BASE

Code Number: **PRVB20500, PRVB25000**

See: Rappaport-Vassiliadis Broth Base, PH EUR - USP

PharmaBio® REINFORCED CLOSTRIDIAL MEDIUM

Code Number: **PRCM20500, PRCM25000**

See: Reinforced Clostridial (RCM-DRCM) Medium Base, PH EUR - USP

PharmaBio® SABOURAUD CHLORAMPHENICOL AGAR

Code Number: **PSCE20500, PSCE25000**

See: Sabouraud Chloramphenicol Agar, PH EUR

PharmaBio® SABOURAUD DEXTROSE (4%) AGAR

Code Number: **PSDA20500, PSDA25000**

See: Sabouraud Dextrose (4%) Agar, PH EUR - USP

PharmaBio® SABOURAUD DEXTROSE BROTH

Code Number: **PSDB20500, PSDB25000**

See: Sabouraud Dextrose Broth, PH EUR - USP

PharmaBio® SELENITE CYSTINE BROTH BASE

Code Number: **PSCB20500, PSCB25000**

See: Selenite Cystine Broth Base, USP

PharmaBio® TETRATHIONATE BROTH BASE, PH EUR

Code Number: **PTTE20500, PTTE25000**

See: Tetrathionate Broth Base, PH EUR

PharmaBio® TETRATHIONATE BROTH BASE, USP

Code Number: **PTTB20500, PTTB25000**

See: Tetrathionate Broth Base, USP

PharmaBio® THIOGLYCOLLATE MEDIUM

Code Number: **PTHM20500, PTHM25000**

See: Thioglycollate Medium, PH EUR

PharmaBio® TRYPTONE SOYA AGAR

Code Number: **PTSE20500, PTSE25000**

See: Tryptone Soya Agar, PH EUR - USP

PharmaBio® TRYPTONE SOYA BROTH

Code Number: **PTSB20500, PTSB25000**

See: Tryptone Soya Broth, PH EUR - USP

PharmaBio® TSI AGAR

Code Number: **PTSI20500, PTSI25000**

See: Triple Sugar Iron (TSI) Agar, PH EUR

PharmaBio® VIOLET RED BILE GLUCOSE AGAR, PH EUR

Code Number: **PVBE20500, PVBE25000**

See: Violet Red Bile Glucose Agar, PH EUR

PharmaBio® VIOLET RED BILE GLUCOSE AGAR, PH EUR - USP

Code Number: **PVBH20500, PVBH25000**

See: Violet Red Bile Glucose Agar, PH EUR - USP

PharmaBio® VOGEL-JOHNSON AGAR BASE

Code Number: **PVJA20500, PVJA25000**

See: Vogel-Johnson Agar Base, USP

PharmaBio® XLD AGAR

Code Number: **PXLD20500, PXLD25000**

See: XLD Agar, PH EUR - USP

PHENOL RED AGAR BASE

A solid medium base for the carbohydrate fermentation studies.

Code Number:	**PHA20500, PHA25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 30 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add the filter sterilised sugar (10 g/l) solution to be examined to the medium. Dispense aseptically into sterile test tubes and allow to cool in slanted position to form slant with deep butt.

Formula in g/l

Peptones	10,00
Sodium chloride	5,00
Phenol red	0,02
Agar	15,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control: Use micro-organisms, which have known positive or negative reactions with investigated sugars.

References: Ewing (1986) Edwards and Ewing's Identification of

Enterobacteriaceae, 4th ed.

PHENOL RED BROTH BASE

A liquid medium base for the carbohydrate fermentation studies.

Code Number:	**PHB20500, PHB25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 15 g in one litre of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add the filter sterilised sugar (10 g/l) solution to be examined to the medium. Dispense aseptically into sterile test tubes.

Formula in g/l

Peptones	10,00
Sodium chloride	5,00
Phenol red	0,02

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at at room temperature.

Quality Control: Use micro-organisms, which have known positive or negative reactions with investigated sugars.

References: Ewing (1986) Edwards and Ewing's Identification of Enterobacteriaceae, 4th ed.

PHENYLALANINE AGAR

A differential medium for the differentiation of Gram-negative enteric bacteria on the basis of phenylalanine deamination.

Code Number:	**PNA20500, PNA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 26 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position.

Formula in g/l

L-Phenylalanine	1
Yeast extract	3
Sodium chloride	5
Buffers	2
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Proteus mirabilis*
Negative control: *Escherichia coli*

Remarks: Use Phenylalanine Deaminase Reagent (PAD60200) to make the positive reaction visible.

References: Henrikson (1950) J. Bacteriol. 60: 225.

PHENYLALANINE RHAMNOSE (FARH) AGAR

A differential medium for the differentiation of Gram-negative enteric bacteria on the basis of phenylalanine deamination and rhamnose fermentation.

Code Number:	**PRH20500, PRH25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,7 (approx.) at 25 °C**

Direction: Suspend 12 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	1,00
Rhamnose	1,00
Sodium chloride	2,00
L-Phenylalanine	1,00
Bromothymol blue	0,04
Buffers	2,00
Agar	5,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*

References: Henrikson (1950) J. Bacteriol. 60: 225.

PHENYLETHYL ALCOHOL (PEA) AGAR BASE

A selective medium for the for the isolation of Gram-positive aerobe and anaerobe bacteria.

Code Number:	**PED20500, PED25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 45 g in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Add 2,5 ml of Phenylethanol Supplement (PEE80030). Mix well and sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood. Mix well before pouring.

Formula in g/l

Peptones	24,500
Sodium chloride	5,000
Anaerobe vitamins	0,415
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Streptococcus pyogenes, Bacteriodes fragilis*
Negative control: *Proteus mirabilis*

References: Brewer and Lilley (1953) J. Am. Pharm. Assoc. 42: 6.

PIKE BROTH

A selective medium for the cultivation of enterococci.

Code Number:	**PBB20500, PBB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 31 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	30,700
Glucose	0,200
Sodium azide	0,065
Violet red	0,002

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Escherichia coli*

References: Pike (1944) Proc. Soc. Exp. Biol. and Med. 57: 187.

PLATE COUNT AGAR

A standard medium for the enumeration of total viable micro-organisms.

Code Number:	**PCA20500, PCA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 23,5 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptone	5,0
Yeast extract	2,5
Glucose	1,0
Agar	15,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: APHA (1978) Standard Methods for the Examination of Dairy Products

PLATE COUNT AGAR No.2

A standard medium for the enumeration of total viable micro-organisms.

Code Number:	**PAT20500, PAT25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 24 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptone	5
Beef extract	3
Glucose	1
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: APHA (1980) Standard Methods for the Examination of Water and Wastewater, 15th ed.

NEW PRODUCT

PLATE COUNT AGAR, ISO 6222

A standard medium for the enumeration of total viable micro-organisms from water according to the ISO 6222.

Code Number:	**PCW20500, PCW25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 24 g in one litre of distilled water and heat with fre-quent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	6
Yeast extract	3
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli , Staphylococcus aureus*

References: ISO 6222: 1999

PLATE COUNT SKIM MILK AGAR

A non-selective medium for the enumeration of viable micro-organisms in milk and dairy products.

Code Number:	**PCS20500, PCS25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 23 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptone	5,0
Yeast extract	2,5
Glucose monohydrate	1,0
Skim milk powder	1,0
Agar	13,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: APHA (1985) Standard Methods for the Examination of Dairy Products, 15rd ed.
ISO 6610: 2002

PLATE COUNT BROTH

A non-selective medium for the enumeration of total viable micro-organisms with MPN procedure.

Code Number:	**PCB20500, PCB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 9 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	8
Glucose	1

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

POTATO DEXTROSE AGAR, PH EUR - USP

A selective medium for the detection, isolation and enumeration of yeasts and moulds according to PH EUR (Potato Dextrose Agar - Harmonised).

Code Number:	**PDA20500, PDA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,6 (approx.) at 25 °C**

Direction: Suspend 39 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 115 °C for 10 minutes. If it is necessary to adjust the pH 3.5 (approx.), cool to 55 °C and add aseptically Lactic Acid Solution (LAS80100) to the medium in the necessary quantity (approx. 10 ml). Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.
Once acidified with lactic acid, the medium should not be re-heated.

Formula in g/l

Dextrose	20
Potato extract	4
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Candida albicans*
Negative control (at pH=3.5): *Bacillus cereus*

References: European Pharmacopoeia 5.6

POTATO DEXTROSE BROTH

A selective medium for the cultivation of yeasts and moulds.

Code Number:	**PDB20500, PDB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,1 (approx.) at 25 °C**

Direction: Suspend 24 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Dextrose	20
Potato extract	4

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Aspergilus niger, Candida albicans*

References: APHA (2001) Compendium of Methods for the Microbiological Examination of Foods, 4th ed.

PURPLE LACTOSE AGAR BASE, MODIFIED

A differential medium for the isolation, enumeration and presumptive identification of micro-organisms from urine.

Code Number:	**BLA20500, BLA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 46 g in 980 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 20 ml of sterile defibrinated blood. Mix well before pouring.

Formula in g/l

Peptones	20,000
Lactose	10,000
Sodium tiosulphate	0,200
Ferrous citrate	0,200
L-Cystine	0,100
Esculin	0,500
Bromocresol purple	0,025
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Salmonella typhimurium, Enterococcus faecalis*

PSEUDOMONAS ISOLATION AGAR BASE

A selective medium for isolation and identification of *Pseudomonas aeruginosa*.

Code Number:	**PIA20500, PIA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water. Add 20 ml of Glyc-erol Supplement (GLC80100) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20,600
Potassium sulphate	10,000
Magnesium chloride	1,400
Irgasan	0,025
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Pseudomonas aeruginosa*
Negative control: *Escherichia coli*

References: Lenette et al. (1985) Manual of Clinical Microbiology, 4th ed.

R2A AGAR, PH EUR

A non-selective medium for the bacteriological examination of water according to PH EUR (Agar Medium S).

Code Number:	**R2A20500, R2A25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 18 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Proteose peptone	0,500
Casein peptone	0,500
Yeast extract	0,500
Glucose	0,500
Starch soluble	0,500
Sodium pyruvate	0,300
Magnesium sulphate, anhydrous	0,024
Dipotassium hydrogen phosphate	0,300
Agar	14,900

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: European Pharmacopoeia 5.6

R2A BROTH

A non-selective medium for the bacteriological examination of water.

Code Number:	**R2B20500, R2B25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 3,2 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	1,500
Glucose	0,500
Starch soluble	0,500
Sodium pyruvate	0,300
Magnesium sulphate, anhydrous	0,024
Buffers	0,300

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: Stark and McCoy (1938) Zentralb. Bakt. Parasit. Infekt. Hyg. Abt. 2. 98: 201.

RAPPAPORT-VASSILIADIS BROTH BASE, PH EUR - USP

A selective enrichment medium for the isolation of salmonellae according to PH EUR (Rappaport-Vassiliadis Salmonella Enrichment Broth - Harmonised).

Code Number:	**RVB20500, RVB25000**
Colour:	**Greenish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**5,2 (approx.) at 25 °C**

Direction: Fill up 27 ml of Rappaport-Vassiliadis Magnesium Chloride Solution (RMG81000) to one litre with distilled water. Suspend 13,5 g of dehydrated medium and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Soya peptone	4,500
Sodium chloride	8,000
Malachite green	0,036
Dipotassium phosphate	0,400
Potassium dihydrogen phosphate	0,600

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Escherichia coli*

References: Rappaport et al. (1956) J. Clin. Path. 9: 261.
European Pharmacopoeia 5.6

RAPPAPORT-VASSILIADIS (MSRV) MEDIUM BASE

A semi-solid selective medium for the detection of motile salmonellae.

Code Number:	**MSR20500, MSR25000**
Colour:	**Greenish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**5,5 (approx.) at 25 °C**

Direction: Fill up 10 ml of DIASALM-MSRV Magnesium Chloride Solution (DSM80500) to 500 ml with distilled water. Suspend 10,5 g of dehydrated medium and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of Novobiocin (10 mg) Supplement (DSN80004-10) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	9,180
Sodium chloride	7,340
Malachite green	0,037
Buffers	1,470
Agar	3,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Pseudomonas aeruginosa*

References: De Smedt et al. (1986) J. Food Prot. 48: 510

REINFORCED CLOSTRIDIAL (RCM) AGAR

A non-selective medium for the cultivation and enumeration of anaerobes, especially *Clostridium* spp.

Code Number:	**RCA20500, RCA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 51 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	23,0
Glucose	5,0
Starch soluble	1,0
Sodium chloride	5,0
Sodium acetate	3,0
L-Cysteine	0,5
Agar	13,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Clostridium perfringens*

References: Hirsh and Grinsted (1954) J. Dairy Res. 21: 101.

REINFORCED CLOSTRIDIAL (RCM-DRCM) MEDIUM BASE, PH EUR - USP

A semi-solid medium for the cultivation and enumeration of anaerobes, especially *Clostridium* spp. according to PH EUR (Medium P - Reinforced Media for Clostridia - Harmonised).

Code Number:	**RCM20500, RCM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction for RCM medium: Suspend 38 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Direction for DRCM medium: Suspend 19 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121°C for 15 minutes. Cool to 50 °C and add aseptically 10 drops (0,5 ml) of Sodium Metabisulphite Solution, Sterile (SMS80030) and 10 drops (0,5 ml) of Ferric Ammonium Citrate Solution, Sterile (FAC80030). Mix well and dispense aseptically into final containers.

Formula in g/l

Peptones	10,0
Beef extract	10,0
Yeast extract	3,0
Glucose monohydrate	5,0
Starch soluble	1,0
Sodium chloride	5,0
Sodium acetate	3,0
L-Cysteine	0,5
Agar	0,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *lostridium perfringens*

References: European Pharmacopoeia 5.6
Hirsh and Grinsted (1954) J. Dairy Res. 21: 101.
Gibbs and Freame (1965) J. Appl. Bact. 28: 95.

REINFORCED CLOSTRIDIAL DIFFERENTIAL BROTH

A non-selective medium for the cultivation and enumeration of anaerobes, especially *Clostridium* spp. by the MPN method.

Code Number:	**RCD20500, RCD25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 38,5 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	23,000
Glucose	5,000
Starch soluble	1,000
Sodium chloride	5,000
Sodium acetate	3,000
Ferric ammonium citrate	0,500
Sodium metabisulphite	0,500
L-Cysteine	0,500
Resazurin	0,002

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Clostridium perfringens*

References: Gibbs and Freame (1965) J. Appl. Bact. 28: 95.

RINGER SOLUTION, ¼ STRENGTH

A sterile isotonic diluent for bacteriological specimens.

Code Number:	**RIS20500, RIS25000**
Colour:	**White**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 2,5 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Sodium chloride	2,25
Potassium chloride	0,10
Calcium chloride	0,10
Sodium bicarbonate	0,05

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

References: Davis (1956) Lab. Cont. of Dairy Plant.

RENEWED PRODUCT

ROGOSA AGAR BASE

A selective medium for the isolation and enumeration of *Lactobacillus* spp.

Code Number:	**ROA20500**
Packaging:	**500 g agar base + 1 litre salt solution**
Appearance – agar base:	**Homogeneous hygroscopic powder**
Appearance – salt solution:	**Colourless solution**
pH before autoclaving:	**5,7 (approx.) at 25 °C**

Direction: Fill up 100 ml of Rogosa Salt Solution to one litre with distilled water. Suspend 50 g of dehydrated medium and heat with frequent agitation until the medium boils well (2-3 min.). If it is necessary to adjust the pH 5.4 (approx.) cool to 50 °C and add glacial acetic acid to the me-dium in the necessary quantity (1,3 ml approx.). Mix well before pour-ing.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.
Once acidified with glacial ecetic acid, the medium should not be re-heated.

Formula for one litre of the complete medium

Peptones	15,200
Glucose	20,000
Sodium acetate	17,000
Ammonium citrate	2,000
Magnesium sulphate	0,575
Manganese sulphate	0,120
Ferrous sulphate	0,034
TWEEN 80	1,000
Buffers	6,000
Agar	20,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the pre-pared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Lactobacillus acidophilus*
Negative control: *Staphylococcus aureus*

References: Rogosa et al. (1951) J. Appl. Bact. 62: 132.

ROSE BENGAL DICHLORAN AGAR

A selective medium for the enumeration of yeasts and moulds. The dicloran enhance the selectivity of medium.

Code Number:	**RBD20500, RBD25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 32 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	5,400
Glucose	10,000
Magnesium sulphate	0,500
Chloramphenicol	0,100
Dichloran	0,002
Rose bengal	0,050
Buffers	1,000
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Saccharomyces cerevisiae*
Negative control: *Escherichia coli*

References: APHA (1978) Standard Method for the Examination of Dairy Products,14th ed.

ROSE BENGAL CHLORAMPHENICOL AGAR

A selective medium for the enumeration of yeasts and moulds.

Code Number:	**RBA20500, RBA25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 32 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	5,40
Glucose	10,00
Magnesium sulphate	0,50
Chloramphenicol	0,10
Rose bengal	0,05
Buffers	1,00
Agar	15,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Saccharomyces cerevisiae*
Negative control: *Escherichia coli*

References: APHA (1978) Standard Method for the Examination of Dairy Products, 14th ed.

RPMI MOPS AGAR BASE

A standard medium for the antimycotical susceptibility testing with Etest.

Code Number:	**RGM20500, RGM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 17,5 g in 400 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C. Heat gently 100 ml of RPMI MOPS Solution, Sterile (RGS80100) to 50 °C and add aseptically to the agar base. Mix well before pouring.

Formula in g/l

Glucose	20
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Candida albicans*

References: www.abbiodisk.com

RUSSEL AGAR

A differential medium for the differentiation of Gram-negative enteric bacteria on the basis of carbohydrate fermentation and production of hy-drogen sulphite.

Code Number:	**RUS20500, RUS25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 38 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position to form slant with deep butt.

Formula in g/l

Peptones	8,4
Lactose	10,0
Sucrose	1,0
Glucose	0,5
Sodium chloride	4,0
Sodium tiosulphate	0,5
Ferrous sulphate	0,5
Andrade indicator	0,1
Buffers	1,0
Agar	12,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Salmonella enteritidis, Pseudomonas aeruginosa, Proteus mirabilis*

References: Russel and Krumwiede (1935)

SABOURAUD DEXTROSE (2%) AGAR

A non-selective medium for the cultivation of pathogenic and non-pathogenic fungi, particularly dermatophytes.

Code Number:	**SDD20500, SDD25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,4 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10
Glucose	20
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Candida albicans, Trichophyton mentagrophytes*

References: Emmons et al. (1977) Medical Mycology

SABOURAUD DEXTROSE (1%) MALTOSE (1%) AGAR

A selective medium for the cultivation moulds and yeasts.

Code Number:	**SDM20500, SDM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,4 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10
Glucose	10
Maltose	10
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Candida albicans, Trichophyton mentagrophytes*

References: Sabouraud (1892) Ann. Dermatol. Syphil. 3: 1061.

SABOURAUD DEXTROSE (4%) AGAR, PH EUR - USP

A selective medium for the cultivation and isolation of pathogenic and non pathogenic yeasts and fungi, particularly dermatophytes according to PH EUR (Sabouraud Dextrose Agar - Harmonised).

Code Number:	**SDA20500, SDA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,6 (approx.) at 25 °C**

Direction: Suspend 65 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Casein peptone	5
Meat peptone	5
Glucose	40
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Candida albicans, Trichophyton mentagrophytes*

References: Sabouraud (1892) Ann. Dermatol. Syphil. 3: 1061.
European Pharmacopoeia 5.6

SABOURAUD MALTOSE (4%) AGAR

A selective medium for the isolation of dermatophytes and other yeasts and fungi.

Code Number:	**SMA20500, SMA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,6 (approx.) at 25 °C**

Direction: Suspend 65 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10
Maltose	40
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Candida albicans, Trichophyton mentagrophytes*

References: Sabouraud (1892) Ann. Dermatol. Syphil. 3: 1061.

SABOURAUD CHLORAMPHENICOL AGAR, PH EUR

A selective medium for the isolation of all species of fungi according to PH EUR (Agar Medium C - Sabouraud Glucose Agar with Chloramphenicol).

Code Number:	**SCE20500, SCE25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,6 (approx.) at 25 °C**

Direction: Suspend 65 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10,00
Glucose monohydrate	40,00
Chloramphenicol	0,05
Agar	15,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C (plates) or at room temperature (tubes).

Quality Control:
Positive control: *Candida albicans, Trichophyton mentagrophytes*
Negative control: *Escherichia coli*

References: European Pharmacopoeia 5.6

SABOURAUD CHLORAMPHENICOL AGAR

A selective medium for the isolation of all species of fungi and dermatophytes from contaminated specimens.

Code Number:	**SCH20500, SCH25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,4 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Sabouraud Dextrose (2%) Agar	44,5
Chloramphenicol	0,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C (plates) or at room temperature (tubes).

Quality Control:
Positive control: *Candida albicans, Trichophyton mentagrophytes*
Negative control: *Escherichia coli*

References: Sabouraud (1892) Ann. Dermatol. Syphil. 3: 1061.

SABOURAUD CHLORAMPHENICOL ACTIDION AGAR

A selective medium for the isolation of dermatophytes from specimens containing mixed flora.

Code Number:	**SCA20500, SCA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,4 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Sabouraud Dextrose (2%) Agar	44,0
Chloramphenicol	0,5
Cycloheximide	0,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C (plates) or at room temperature (tubes).

Quality Control:
Positive control: *Candida albicans, Trichophyton mentagrophytes*
Negative control: *Escherichia coli*

References: Sabouraud (1892) Ann. Dermatol. Syphil. 3: 1061.

SABOURAUD CHLORAMPHENICOL GENTAMICIN AGAR

A selective medium for the isolation of all species of yeasts and other fungi from contaminated specimens.

Code Number:	**SCG20500, SCG25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Sabouraud Dextrose (2%) Agar	44,90
Chloramphenicol	0,05
Gentamicin	0,01

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C (plates) or at room temperature (tubes).

Quality Control:
Positive control: *Candida albicans, Trichophyton mentagrophytes*
Negative control: *Escherichia coli*

References: Sabouraud (1892) Ann. Dermatol. Syphil. 3: 1061.

SABOURAUD DEXTROSE BROTH, PH EUR - USP

A sterility test medium for the detection yeasts and moulds according to PH EUR (Sabouraud Dextrose Broth - Harmonised).

Code Number:	**SDB20500, SDB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,7 (approx.) at 25 °C**

Direction: Suspend 30 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Casein peptone	5
Meat peptone	5
Glucose	20

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Candida albicans, Aspergillus niger*

References: European Pharmacopoeia 5.6

SABOURAUD CHLORAMPHENICOL GENTAMICIN TETRAZOLIUM AGAR

A selective medium for the isolation and differentiation of *Candida* spp.

Code Number:	**STG20500, STG25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,6 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes (100x16mm) and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position.

Formula in g/l

Sabouraud Dextrose (2%) Agar	44,60
Chloramphenicol	0,25
Gentamicin	0,10
Triphenyltetrazolium chloride	0,05

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Candida albicans*
Negative control: *Escherichia coli*

References: Pagano et al. (1958) Antibiotics Ann. 6: 137.

SABOURAUD CHLORAMPHENICOL BROTH

A selective medium for the cultivation of all species of fungi and dermatophytes from contaminated specimens.

Code Number:	**SCC20500, SCC25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,4 (approx.) at 25 °C**

Direction: Suspend 30 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10,0
Glucose	19,5
Chloramphenicol	0,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Candida albicans, Trichophyton mentagrophytes*
Negative control: *Escherichia coli*

References: Sabouraud (1892) Ann. Dermatol. Syphil. 3: 1061.

SALMONELLA SHIGELLA (SS) AGAR, MODIFIED

A selective and differential medium for the isolation of enteric micro-organisms, especially *Salmonella* and some *Shigella* spp. The medium supplemented with phenylalanine is suitable to distinguish *Salmonella* spp. from *Proteus* spp.

Code Number:	**SSA20500, SSA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,0 (approx.) at 25 °C**

Direction: Suspend 66 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Cool quickly! Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	12,0000
Bile salts	8,5000
Lactose	10,0000
Sodium citrate	10,0000
Sodium thiosulphate	8,5000
Ferric citrate	1,0000
L-Phenylalanine	1,0000
Neutral red	0,0250
Brilliant green	0,0003
Agar	15,0000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but no longer than one week.

Quality Control:
Positive control: *Escherichia coli, Salmonella enteritidis, Shigella sonnei, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: Leifson (1935) J. Path. Bact. 40: 476.

SALT BROTH

A selective medium for the presumptive identification of enterococci by determining their salt tolerance.

Code Number:	**SBR20500, SBR25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 85 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	20
Sodium chloride	65

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Staphylococcus aureus*
Negative control: *Escherichia coli*

SCHAEDLER AGAR

A non-selective medium for the isolation and cultivation of anaerobe bacteria.

Code Number:	**SAA20500, SAA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,6 (approx.) at 25 °C**

Direction: Suspend 42 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. If it is necessary to supplement with blood, cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood. Mix well before pouring.

Formula in g/l

Nutrient substrate (peptones, extracts)	18,000
Glucose	5,800
Sodium chloride	1,700
L-Cysteine	0,400
Vitamins	0,011
Buffers (TRIS and phosphates)	3,100
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Bacteroides fragilis, Clostridium perfringens*

References: Schaedler et al. (1965) J. Exp. Med. 122: 59.

SCHAEDLER BROTH

An enrichment medium for the general cultivation of anaerobe bacteria.

Code Number:	**SAB20500, SAB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,6 (approx.) at 25 °C**

Direction: Suspend 29 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Nutrient substrate (peptones, extracts)	18,000
Glucose	5,800
Sodium chloride	1,700
L-Cysteine	0,400
Vitamins	0,011
Buffers (TRIS and phosphates)	3,100

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Bacteroides fragilis, Clostridium perfringens*

References: Schaedler et al. (1965) J. Exp. Med. 122: 59.

SELENITE BROTH BASE

A selective enrichment medium for the isolation of salmonellae.

Code Number:	**SEB20500, SEB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,0 (approx.) at 25 °C**

Direction: Dissolve 4 grams of Selenite Supplement (SES80110) in one litre of distilled water. Suspend 19 g of dehydrated medium and heat gently to dissolve the medium completely. Dispense into final containers. In case of not using the medium on the day of preparation, sterilise at 100 °C for 10 minutes. Cool quickly! A small amount of coloured precipitate is not detrimental.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	5
Lactose	4
Buffers	10

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Escherichia coli*

References: Leifson (1936) Am. J. Hyg. 24: 423.

SELENITE CYSTINE BROTH BASE, USP

A selective enrichment medium for the isolation of salmonellae according to USP. The L-Cystine improves the recovery of salmonellae.

Code Number:	**SCB20500, SCB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,0 (approx.) at 25 °C**

Direction: Dissolve 4 grams of Selenite Supplement (SES80110) in one litre of distilled water. Suspend 19 g of dehydrated medium and heat gently to dissolve the medium completely. Dispense into final containers. In case of not using the medium on the day of preparation, sterilise at 100 °C for 10 minutes. Cool quickly! A small amount of coloured precipitate is not detrimental.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	5,00
Lactose	4,00
L-Cystine	0.01
Buffers	10,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Escherichia coli*

References: North and Bartam (1953) Appl. Microbiol. 1: 130.
United States Pharmacopoeia XXVIII. (2005)

SELENITE CYSTINE MANNITOL BROTH BASE

A selective enrichment medium for the isolation of salmonellae. The L-Cystine and the replacing lactose with mannitol improves the recovery of salmonellae.

Code Number:	**SCM20500, SCM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Dissolve 4 grams of Selenite Supplement (SES80110) in one litre of distilled water. Suspend 19 g of dehydrated medium and heat gently to dissolve the medium completely. Dispense into final containers. In case of not using the medium on the day of preparation, sterilise at 100 °C for 10 minutes. Cool quickly! A small amount of coloured precipitate is not detrimental.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	5,00
Mannitol	4,00
L-Cystine	0.01
Buffers	10,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Escherichia coli*

References: Hobbs and Allison (1945) Mon. Bull. Min. Hlth Pub. Hlth Lab. Serv. 4: 12.

SHIGELLA BROTH BASE

A selective medium for the selective enrichment of shigellae.

Code Number:	**SHB20500, SHB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 15 g in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically one vial of Shigella Selective Supplement (SBS80004) reconstituted with 4 ml of sterile distilled water. Mix well and dispense aseptically into sterile containers.

Formula in g/l

Peptones	20
Glucose	1
Sodium chloride	5
Buffers	4

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Shigella sonnei*
Negative control: *Enterococcus faecalis*

References: FDA (1988) Bacteriological Analytical Manual, 8th ed.

SIMMONS CITRATE AGAR

A differential medium for the differentiation of Gram-negative bacteria on the basis of citrate utilisation.

Code Number:	**CIT20500, CIT25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,9 (approx.) at 25 °C**

Direction: Suspend 24 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position.

Formula in g/l

Sodium citrate	2,00
Sodium chloride	5,00
Magnesium sulphate	0,20
Bromothymol blue	0,08
Buffers	1,70
Agar	15,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Klebsiella pneumoniae*
Negative control: *Escherichia coli*

References: Simmons (1926) J. Infect. Dis. 39: 209.

SIM MEDIUM

A differential medium for the differentiation of enteric bacteria on the basis of motility, hydrogen sulphite and indole production.

Code Number:	**SIM20500, SIM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,7 (approx.) at 25 °C**

Direction: Suspend 30 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	26,0
Sodium thiosulphate	0,2
Ferrous ammonium sulphate	0,2
Agar	3,6

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Shigella sonnei, Proteus mirabilis, Escherichia coli*

References: Blazevic (1968) Appl. Microbiol. 16: 668.

RENEWED PRODUCT

SLANETZ-BARTLEY AGAR BASE

A selective medium for the detection of enterococci.

Code Number:	**SLA20500, SLA25000**
Colour:	**Yellowish**
Appearance:	**Slightly adherent homogeneous hy-groscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 22 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 115 °C for 15 minutes. Cool to 50 °C and add aseptically 10 drops (0,5 ml) of TTC Solution, Sterile (TTC80030). Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	25,0
Glucose	2,0
Sodium azide	0,4
Buffers	4,0
Agar	12,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Enterococcus faecalis*
Negative control: *Escherichia coli*

References: Slanetz and Bartley (1957) J. Bact. 74: 591.

SPS AGAR

A selective medium for the isolation and enumeration of *Clostridium perfringens*.

Code Number:	**SPS20500, SPS25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat with fre-quent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes

Formula in g/l

Peptones	25,90
Sodium sulphite	0,50
Ferric citrate	0,50
Sulfadiazine	0,12
Polymyxin B	0,01
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Clostridium perfringens*
Negative control: *Escherichia coli*

References: Angelotti et al. (1962) Applied Microbiol. 10: 193.

STAPHYLOCOCCUS AGAR No.110

A selective medium for the isolation and presumptive identification of pathogenic staphylococci.

Code Number:	**STM20500, STM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 150 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Disperse the precipitate by gentle agitation before pouring.

Formula in g/l

Peptones	13
Mannitol	10
Lactose	2
Sodium chloride	75
Gelatin	30
Buffers	5
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Staphylococcus aureus*
Negative control: *Escherichia coli*

References: APHA (1976) Compendium of Methods for the Microbiological Examination of Foods

SUGAR FREE AGAR

A selective medium for the enumeration of contaminants in dairy products.

Code Number:	**SFA20500, SFA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,8 (approx.) at 25 °C**

Direction: Suspend 35 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	15
Sodium chloride	5
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Lactobacillus acidophilus*

References: International Dairy Federation (1964) International standard count of contaminating organisms in butter. International Standard FILIDF30

TCBS AGAR

A selective medium for the isolation of pathogenic vibrios.

Code Number:	**TCB20500, TCB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**8,6 (approx.) at 25 °C**

Direction: Suspend 91 g in one litre of distilled water and soak for 10 minutes. Heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	18,00
Sucrose	20,00
Bacteriological bile	8,00
Sodium chloride	10,00
Sodium citrate	10,00
Sodium thiosulphate	10,00
Ferric citrate	1,00
Bromothymol blue	0,04
Thymol blue	0,04
Agar	14,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Vibrio cholerae*
Negative control: *Escherichia coli, Proteus mirabilis*

References: Kobayashi et al. (1963) Jap. J. Bact. 18. 10-11: 387.

TERGITOL 7 AGAR BASE

A differential and selective medium for the detection and enumeration of coliforms.

Code Number:	**TEA20500, TEA25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 54 g in one litre of distilled water and boil to dissolve the medium completely. Sterilise by autoclaving at 121°C for 15 minutes. Cool to 50 °C and aseptically add 10 drops of Tergitol 7 TTC Solution (TES80007). Mix well before pouring.

Formula in g/l

Peptones	20,90
Lactose	20,00
Tergitol 7	0,10
Bromothymol blue	0,05
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but no longer than one week.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Enterococcus faecalis*

References: Chapman (1947) J. Bact. 53: 504.

TEST AGAR, pH 7.2

A non-selective medium for the detection of antimicrobial inhibitors.

Code Number:	**T7220500, T7225000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 - 7,3 at 25 °C**

Direction: Suspend 26 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 1 ml *Bacillus subtilis* spore suspension. Mix well and pour plates immediately.

Formula in g/l

Peptones	7,0
Sodium chloride	5,0
Buffer	0,8
Agar	13,2

Storage conditions: Store the dehydrated medium tightly closed in a cool dry place and use before the expiry date on the label. Store the prepared medium in the dark, at 1-3 °C. Do not freeze! Addititonal packing in a wealded plastic bag is highly recommended.

Quality Control:
Positive control: *Bacillus subtilis*

References: Levetzow (1971) Bundesgesundheitsblatt 14, 15/16: 211.

TEST AGAR, pH 6.0

A non-selective medium for the detection of antimicrobial inhibitors.

Code Number:	**T6020500, T6025000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,9 - 6,1 at 25 °C**

Direction: Suspend 25 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 1 ml *Bacillus subtilis* spore suspension. Mix well and pour plates immediately.

Formula in g/l

Peptones	6,9
Sodium chloride	5,1
Agar	13,0

Storage conditions: Store the dehydrated medium tightly closed in a cool dry place and use before the expiry date on the label. Store the prepared medium in the dark, at 1-3 °C. Do not freeze! Addititonal packing in a wealded plastic bag is highly recommended.

Quality Control:
Positive control: *Bacillus subtilis*

References: Levetzow (1971) Bundesgesundheitsblatt 14, 15/16: 211.

TEST AGAR, pH 8.0

A non-selective medium for the detection of antimicrobial inhibitors.

Code Number:	**T8020500, T8025000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,9 - 8,1 at 25 °C**

Direction: Suspend 27,5 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 1 ml *Bacillus subtilis* spore suspension. Mix well and pour plates immediately.

Formula in g/l

Peptones	6,9
Sodium chloride	5,1
Buffer	2,4
Agar	13,1

Storage conditions: Store the dehydrated medium tightly closed in a cool dry place and use before the expiry date on the label. Store the prepared medium in the dark, at 1-3 °C. Do not freeze! Addititonal packing in a wealded plastic bag is highly recommended.

Quality Control:
Positive control: *Bacillus subtilis*

References: Levetzow (1971) Bundesgesundheitsblatt 14, 15/16: 211.

TETRATHIONATE BROTH BASE, MULLER-KAUFFMAN

A selective medium for the enrichment of salmonellae with inhibition of proteae.

Code Number:	**MTB20500, MTB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,6 (approx.) at 25 °C**

Direction: Suspend 41 g in 480 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically 10 ml of Brilliant Green Solution, 0,1% (BGS80100-DC). Mix well and add aseptically the contents of one vial of Tetrathionate Iodine-Iodide Selective Supplement (TTS80010) reconstituted with 10 ml of sterile distilled water. Mix well and dispense aseptically into sterile test tubes.

Warning!
The medium is heat sensitive.
Do not heat after the addition of the supplement.
The complete medium should be used on the day of preparation.

Formula in g/l

Peptones	7,0
Bacteriological bile	4,8
Sodium thiosulphate	40,7
Calcium carbonate	25,0
Sodium chloride	4,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Escherichia coli*

References: Muller (1923) C. R. Soc. Biol. 89: 434.
Kauffmann (1930) Zbl. Bakt. I. Orig. 119: 148.

TETRATHIONATE BROTH BASE, MULLER-KAUFFMAN (MKTTn)

A selective medium for the enrichment of salmonellae according to ISO standard.

Code Number:	**TMK20500, TMK25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**8,0 (approx.) at 25 °C**

Direction: Suspend 45 g in 475 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of Novobiocin (20 mg) Supplement (DSN80004-20) reconstituted with 4 ml of sterile distilled water and 10 ml of Brilliant Green Solution, 0,1% (BGS80100-DC). Mix well and add aseptically the contents of one vial of Tetrathionate Iodine-Iodide Selective Supplement (TTS80010) reconstituted with 10 ml of sterile distilled water. Mix well and dispense aseptically into sterile test tubes.

Warning!
The medium is heat sensitive.
Do not heat after the addition of the supplement.
The complete medium should be used on the day of preparation.

Formula in g/l

Peptones	13,4
Bile salts	4,8
Calcium carbonate	38,7
Sodium thiosulphate	30,5
Sodium chloride	2,6

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Proteus mirabilis*

References: ISO 6579: 2002

TETRATHIONATE BROTH BASE, PH EUR

A selective enrichment medium for the isolation of salmonellae according to PH EUR (Broth Medium I – Tetrathionate Bile Brillant Green Broth).

Code Number:	**TTE20500, TTE25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 31,5 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of Tetrathionate Iodine-Iodide Selective Supplement (TTS80010) reconstituted with 10 ml of sterile distilled water. Mix well and dispense aseptically into sterile test tubes.

Warning!
The medium is heat sensitive.
Do not heat after the addition of the supplement.
The complete medium should be used on the day of preparation.

Formula in g/l

Peptones	8,60
Bacteriological bile	8,00
Sodium thiosulphate	30,00
Calcium carbonate	20,00
Sodium chloride	6,40
Brilliant green	0,07

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but no longer than 24 hours.

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Escherichia coli*

References: European Pharmacopoeia 5.6

TETRATHIONATE BROTH BASE, USP

A selective enrichment medium for the isolation of salmonellae including *Salmonella typhi* according to USP.

Code Number:	**TTB20500, TTB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**8,4 (approx.) at 25 °C**

Direction: Suspend 23 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of Tetrathionate Iodine-Iodide Selective Supplement (TTS80010) reconstituted with 10 ml of sterile distilled water. Mix well and dispense aseptically into sterile test tubes.

Warning!
The medium is heat sensitive.
Do not heat after the addition of the supplement.
The complete medium should be used on the day of preparation.

Formula in g/l

Peptones	5
Bile salts	1
Sodium thiosulphate	30
Calcium carbonate	10

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C, but no longer than 24 hours.

Quality Control:
Positive control: *Salmonella enteritidis*
Negative control: *Escherichia coli*

References: United States Pharmacopoeia XXVIII. (2005)

THIOGLYCOLLATE MEDIUM, BREWER

An enrichment medium for the cultivation of both aerobe and anaerobe micro-organisms, especially in the sterility testing of the biological product.

Code Number:	**TBR20500, TBR25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 20 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	8,000
Glucose	5,000
Sodium chloride	5,000
Sodium thioglycollate	1,100
Methylene blue	0,002
Agar	0,900

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Clostridium perfringens, Staphylococcus aureus*

References: Brewer (1940) J. Am. Med. Assoc. 115: 598.

THIOGLYCOLLATE MEDIUM G

A medium for testing of sterility. The medium is primarily intended for the culture of anaerobe bacteria, however, it will also detect aerobe bacteria. This medium is more transparent then the classical thioglycollate media.

Code Number:	**THG20500, THG25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 30 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Casein peptone	15,250
Yeast extract	5,000
Glucose monohydrate	5,500
Sodium chloride	2,500
Sodium thioglycollate	0,500
L-Cystine	0,500
Resazurin	0,001
Gelling agent	0,750

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Clostridium sporogenes, Pseudomonas aeruginosa, Staphylococcus aureus*

THIOGLYCOLLATE MEDIUM, PH EUR

A medium for testing of sterility according to PH EUR (Fluid Thioglycollate Medium for Sterility Testing). The medium is primarily intended for the culture of anaerobe bacteria, however, it will also detect aerobe bacteria.

Code Number:	**THM20500, THM25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 30 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Casein peptone	15,250
Yeast extract	5,000
Glucose monohydrate	5,500
Sodium chloride	2,500
Sodium thioglycollate	0,500
L-Cystine	0,500
Resazurin	0,001
Agar	0,750

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Clostridium sporogenes, Pseudomonas aeruginosa, Staphylococcus aureus*

References: European Pharmacopoeia 5.6

THIOGLYCOLLATE MEDIUM WITH HEMIN + VITAMIN K3

A medium for testing of sterility. The medium is primarily intended for the culture of anaerobe bacteria.

Code Number:	**THK20500, THK25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 30 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Casein peptone	15,250
Yeast extract	5,000
Glucose monohydrate	5,500
Sodium chloride	2,500
Sodium thioglycollate	0,500
L-Cystine	0,500
Hemin	0,005
Vitamin K3	0,001
Resazurin	0,001
Agar	0,750

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Clostridium perfringens*

References: Lanette et al. (1985) Manual of Clinical Microbiol., 4th ed.

TODD-HEWITT BROTH

A general-purpose non-selective medium for the cultivation primarily of beta-hemolytic streptococci.

Code Number:	**THB20500, THB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,8 (approx.) at 25 °C**

Direction: Suspend 37 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Direction for selective broth: Suspend 18,5 g in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Todd-Hewitt Selective Supplement (THS80004) reconstituted with 4 ml of sterile distilled water. Mix well and dispense aseptically into sterile final containers.

Formula in g/l

Nutrient substrate (heart infusion, peptones)	30
Glucose	2
Sodium chloride	2
Buffers	3

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Streptococcus pneumoniae*

References: Todd and Hewitt (1932) J. Path. Bact. 35: 973.

TOMATO JUICE AGAR

A selective medium for the cultivation and enumeration of *Lactobacillus* spp.

Code Number:	**TJA20500, TJA25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,1 (approx.) at 25 °C**

Direction: Suspend 53 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. If it is necessary to adjust the pH 5,1 (approx.), cool to 50 °C and add aseptically Lactic Acid Solution (LAS80100) to the medium in the necessary quantity (approx. 10 ml). Mix well before pouring.

Warning!
Once acidified with lactic acid, the medium should not be re-heated.

FORMULA in g/l

Tomato extract	20
Peptones	10
Milk peptone	10
Agar	13

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Lactobacillus acidophilus*

References: Kulp and White (1932) Science 76: 17.

TRANSPORT MEDIUM, AMIES WITH CHARCOAL

An improved semi-solid, non-nutritional medium for the transportation of fastidious pathogens with prolonged survival of micro-organisms from collection to culturing. The added charcoal neutralises the toxic metabolic products of gonococci.

Code Number:	**TAC20500, TAC25000**
Colour:	**Black**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 20 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C. While cooling turn the containers up and down a few times to distribute the charcoal uniformly.

Formula in g/l

Sodium chloride	3,0
Sodium thioglycollate	1,0
Potassium chloride	0,2
Calcium chloride	0,1
Magnesium chloride	0,1
Charcoal	10,0
Buffers	1,6
Agar	4,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Shigella flexneri*

References: Amies (1967). Can. J. Pub. Hlth. 58: 296.

TRANSPORT MEDIUM, AMIES WITHOUT CHARCOAL

An improved semi-solid, non-nutritional medium for the transportation of fastidious pathogens with prolonged survival of micro-organisms from collection to culturing.

Code Number:	**TAW20500, TAW25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 10 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Sodium chloride	3,0
Sodium thioglycollate	1,0
Potassium chloride	0,2
Calcium chloride	0,1
Magnesium chloride	0,1
Buffers	1,6
Agar	4,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Haemophilus influenzae*

References: Amies (1967) Can. J. Pub. Hlth. 58: 296.

TRANSPORT MEDIUM, CARY-BLAIR

A semi-solid, non-nutritional medium for the transportation of Gram- negative and anaerobe micro-organisms with prolonged survival of micro-organisms from collection to culturing.

Code Number:	**TCW20500, TCW25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**8,3 (approx.) at 25 °C**

Direction: Suspend 13 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Sodium chloride	5,00
Sodium thioglycollate	1,50
Calcium chloride	0,09
Buffers	1,00
Agar	5,40

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Shigella sonnei*

References: Cary and Blair (1964) J. Bact. 88: 96.

TRANSPORT MEDIUM, STUART WITH CHARCOAL

A semi-solid, non-nutritional medium for the transportation of fastidious pathogens with prolonged survival of micro-organisms from collection to culturing. The added charcoal neutralises the toxic metabolic products of gonococci.

Code Number:	**TSC20500, TSC25000**
Colour:	**Black**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 26 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C, While cooling turn the containers up and down a few times to distribute the charcoal uniformly.

Formula in g/l

Calcium chloride	0,100
Sodium thioglycollate	0,500
L-Cysteine	0,400
Charcoal	10,000
Methylene blue	0,001
Sodium glycerophosphate	10,000
Agar	5,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Streptococcus pyogenes*

References: Stuart et al. (1959) Pub. Hlth. Rep. Wash. 74: 431.

TRANSPORT MEDIUM, STUART WITHOUT CHARCOAL

A semi-solid, non-nutritional medium for the transportation of fastidious pathogens with prolonged survival of micro-organisms from collection to culturing.

Code Number:	**TSW20500, TSW25000**
Colour:	**Greyish**
Appearance:	**Homogeneous hygroscopic powde**
rpH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 16 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Calcium chloride	0,100
Sodium thioglycollate	0,500
L-Cysteine	0,400
Methylene blue	0,001
Sodium glycerophosphate	10,000
Agar	5,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Streptococcus pyogenes*

References: Stuart et al. (1959) Pub. Hlth. Rep. Wash. 74: 431.

TRIBUTYRIN AGAR BASE

A non-selective medium for the detection and enumeration of lipolytic micro-organisms.

Code Number:	**TRA20500, TRA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,5 (approx.) at 25 °C**

Direction: Suspend 20 g in one litre of distilled water. Add 10 ml of Tributyrin Supplement (TRS80250) and mix uniformly. Heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C with frequent agitation and pour plates immediately to solidify quickly.

Warning!
The ready medium must be uniformly turbid gel!

Formula in g/l

Peptones	8
Agar	12

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Lipase positive control: *Staphylococcus aureus*
Lipase negative control: *Escherichia coli*

References: Anderson (1939) Ber. 3. Int. Microbiol. Congress. 3: 726.

TRICHOMONAS (CPLM) MEDIUM BASE, MODIFIED

A non-selective medium for the cultivation of *Trichomonas vaginalis.*

Code Number:	**CPL20500, CPL25000**
Colour:	**Brownish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,0 (approx.) at 25 °C**

Direction: Suspend 17,5 g in 425 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Trichomonas Selective Supplement (TSS80004) reconstituted with 4 ml of sterile distilled water and 70 ml of sterile inactivated (i.e. serum held at 56 °C for 30 minutes) and pH adjusted (6.0) horse serum. Dispense aseptically into sterile test tubes.

Formula in g/l

Nutrient substrate (peptones, liver extract)	26,000
Maltose	1,000
Ringer solution	4,500
L-Cysteine	2,000
Methylene blue	0,005
Buffers	0,500
Agar	1,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Trichomonas vaginalis*

References: Johnson and Trussel (1943) Proc. Soc. Exp. Biol. 54: 245.
Szénási et al. (1999) Hungarian Venerological Archive 3: 215.

TRICHOMONAS MEDIUM BASE

A non-selective medium for the cultivation of *Trichomonas vaginalis.*

Code Number:	**TRM20500, TRM25000**
Colour:	**Brownish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,4 (approx.) at 25 °C**

Direction: Suspend 18,5 g in 455 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Trichomonas Selective Supplement (TSS80004) reconstituted with 4 ml of sterile distilled water and 40 ml of sterile inactivated (i.e. serum held at 56 °C for 30 minutes) and pH adjusted (6.4) horse serum. Dispense aseptically into sterile test tubes.

Formula in g/l

Liver extract	24,5
Glucose	5,0
Sodium chloride	6,5
Agar	1,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Trichomonas vaginalis*

References: Freinberg and Whittington (1957) J. Clin. Path. 10: 327.

TRIPLE SUGAR IRON (TSI) AGAR, PH EUR

A differential medium for the differentiation of Gram-negative enteric bacteria on the basis of carbohydrate fermentation and hydrogen sulphite production according to PH EUR (Agar Medium M).

Code Number:	**TSI20500, TSI25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 66 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position to form slant with deep butt.

Formula in g/l

Peptones	20,000
Beef extract	3,000
Yeast extract	3,000
Lactose monohydrate	10,000
Sucrose	10,000
Glucose	1,000
Sodium chloride	5,000
Sodium thiosulphate	0,300
Ferric citrate	0,300
Phenol red	0,025
Agar	13,400

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli, Salmonella Enteritidis, Pseudomonas aeruginosa*

References: European Pharmacopoeia 5.6

TRYPTONE SOYA AGAR

A highly nutritious general purpose medium for the growth of wide variety of micro-organisms.

Code Number:	**TSA20500, TSA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 45 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptone	17,0
Soya peptone	3,0
Glucose	2,5
Sodium chloride	5,0
Buffers	2,5
Agar	15,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Streptococcus pneumoniae, Staphylococcus aureus*

TRYPTONE BILE AGAR

A differential medium for the enumeration of *Escherichia coli* with DPM method.

Code Number:	**TBA20500, TBA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 37 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptone	20,5
Bile salts	1,5
Agar	15,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Staphylococcus aureus*

References: Anderson and Baird-Parker (1975) J. Appl. Bact. 39: 111.

TRYPTONE SOYA AGAR, PH EUR - USP

A highly nutritious general purpose medium for the cultivation of wide variety of micro-organisms according to PH EUR (Agar Medium B - Casein Soya-Bean Digest Agar - Harmonised).

Code Number:	**TSE20500, TSE25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Casein peptone	15
Soya peptone	5
Sodium chloride	5
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Streptococcus pneumoniae, Staphylococcus aureus*

References: European Pharmacopoeia 5.6

TRYPTONE SOYA BILE (mTSB) BROTH

A selective medium for the isolation of enterohemorrhagic *Escherichia coli* (EHEC).

Code Number:	**TBB20500, TBB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 33 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptone	17,00
Soya peptone	3,00
Bile salts	1,50
Glucose	2,50
Sodium chloride	5,00
Buffers	4,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature

Quality Control:
Positive control: *Escherichia coli 0157*
Negative control: *Staphylococcus aureus*

References: Doyle and Schoeni (1987) Appl. Envir. Microbiol. 53: 2394.

TRYPTONE SOYA BROTH, PH EUR - USP

A highly nutritious general purpose medium for the growth of wide variety of micro-organisms. The medium is primarily intended for the culture of fungi and aerobe bacteria according to PH EUR (Broth Medium A - Casein Soya-Bean Digest Broth - Harmonised).

Code Number:	**TSB20500, TSB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 30 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Casein peptone	17,0
Soya peptone	3,0
Glucose monohydrate	2,5
Sodium chloride	5,0
Dipotassium hydrogen phosphate	2,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature

Quality Control:
Positive control: *Streptococcus pneumoniae, Staphylococcus aureus, Candida albicans*

References: European Pharmacopoeia 5.6

TRYPTONE SOYA BILE (mTSB+n) BROTH WITH NOVOBIOCIN

A selective medium for the isolation of enterohemorrhagic *Escherichia coli* (EHEC).

Code Number:	**TBN20500, TBN25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 33 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptone	17,00
Soya peptone	3,00
Bile salts	1,50
Glucose	2,50
Sodium chloride	5,00
Novobiocin	0,02
Buffers	4,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli 0157*
Negative control: *Staphylococcus aureus*

References: ISO 16654: 1999

TRYPTONE SOYA YEAST EXTRACT AGAR

A highly nutritious medium for the cultivation of wide variety of micro-organisms especially *Listeria monocytogenes*.

Code Number:	**TYA20500, TYA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 51 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptone	17,0
Soya peptone	3,0
Yeast extract	6,0
Glucose	2,5
Sodium chloride	5,0
Buffers	2,5
Agar	15,0

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Listeria monocytogenes*

References: APHA (1992) Compendium of Methods for the Microbological Examination of Foods, 3rd ed.
ISO 10560: 1993

TRYPTONE SOYA YEAST EXTRACT BROTH

A highly nutritious non-selective medium for the cultivation of wide variety of micro-organisms especially *Listeria monocytogenes*.

Code Number:	**YTB20500, YTB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 36 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes

Formula in g/l

Tryptone	17,0
Soya peptone	3,0
Yeast extract	6,0
Glucose	2,5
Sodium chloride	5,0
Buffers	2,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Listeria monocytogenes*

References: APHA (1992) Compendium of Methods for the Microbological Examination of Foods, 3rd ed.
ISO 11290: 1998

TRYPTOPHAN BROTH

A differential medium for the testing of the micro-organisms' ability to produce indole from tryptophan.

Code Number:	**TRB20500, TRB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,5 (approx.) at 25 °C**

Direction: Suspend 16 g in one litre of distilled water. Heat gently to dis-solve the medium completely. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	10
Sodium chloride	5
L-Tryptophan	1

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Enterobacter aerogenes*

References: ISO 9308-1: 2000

TRYPTONE WATER

A differential medium for the testing of the micro-organisms' ability to produce indole from tryptophan.

Code Number:	**TRW20500, TRW25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,5 (approx.) at 25 °C**

Direction: Suspend 15 g in one litre of distilled water. Heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptone	10
Sodium chloride	5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Escherichia coli*
Negative control: *Enterobacter aerogenes*

References: Farmer (1985) J. Clin. Microbiol. 21: 46.

TRYPTOSE PHOSPHATE BROTH

A highly nutritious medium for the cultivation of fastidious bacteria.

Code Number:	**TPB20500, TPB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,3 (approx.) at 25 °C**

Direction: Suspend 30 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Tryptose	20,5
Glucose	2,0
Sodium chloride	5,0
Buffers	2,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Streptococcus pneumoniae*

References: Grinsberg et al. (1955) Proc. Soc. Exper. Biol. Med. 89: 66.

TSN AGAR

A selective and differential medium for the selective isolation of *Clostridium perfringens*.

Code Number:	**TSN20500, TSN25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,0 (approx.) at 25 °C**

Direction: Suspend 40 g in one litre of distilled water and heat with frequent agitation until the medium boil well. Dispense into final containers and sterilise by autoclaving at 115 °C for 10 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	25,00
Sodium sulphite	1,00
Ferric citrate	0,50
Neomycin	0,05
Polymyxin B	0,02
Agar	13,50

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Clostridium perfringens*

References: Marshall et al. (1965) Appl. Microbiol. 13: 559.

TYROBUTYRICUM BROTH BASE

A selective medium for the detection of *Clostridium tyrobutyricum*.

Code Number:	**TYB20500, TYB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**6,0 (approx.) at 25 °C**

Direction: Fill up 10 ml of Tyrobutyricum Sodium Lactate Solution (SLT80140) and 10 ml of Sodium Acetate Solution (SAS80100) to one litre with distilled water. Suspend 31 g of dehydrated medium and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	30,5000
L-Cysteine	0,5000
Resazurin	0,0025

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Clostridium tyrobutyricum*
Negative control: *Staphylococcus aureus*

UNIVERSAL BEER AGAR

A non-selective medium for the isolation of beer spoilage micro-organisms.

Code Number:	**UBA20500, UBA25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,3 (approx.) at 25 °C**

Direction: Suspend 57 g in 750 ml of distilled water and heat with frequent agitation until the medium boils well. Without delay, add 250 ml of beer to be investigated (without degassing). Mix gently and sterilise by autoclaving at 121 °C for 10 minutes.

Formula in g/l

Peptones	25,40
Tomato extract	7,00
Glucose	10,00
Mg(II), Na(I), Fe(III) and Mn(II) salts	0,15
Buffers	1,50
Agar	13,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Lactobacillus acidophilus, Saccharomyces cerevisiae*

References: Kozulis and Page (1968) Proc. Am. Brew. Chem: 52.

UREA AGAR

A differential medium for the differentiation of micro-organisms, especially the Enterobacteriaceae, on the basis of urease activity.

Code Number:	**URD20500-M**
Packaging:	**380 g agar base + 120 g urea**
Appearance – agar base:	**Pinkish, homogeneous, hygroscopic powder**
Appearance – urea:	**White pellet**
pH before autoclaving:	**6,4 - 6,6 at 25 °C**
pH after autoclaving:	**6,6 - 7,0 at 25 °C**

Direction: Suspend 32 g agar base and 10 g urea in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 115 °C for 15 minutes. Allow to cool in slanted position.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula of ready medium in g/l

Peptones	1,000
Glucose	1,000
Sodium chloride	5,000
Urea	20,000
Phenol red	0,012
Buffers	2,000
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Proteus mirabilis*
Negative control: *Escherichia coli*

References: Christensen (1946) J. Bact. 52: 461.

UREA BROTH

A differential medium for the differentiation of micro-organisms, especially the Enterobacteriaceae, on the basis of urease activity.

Code Number:	**URE20500-M**
Packaging:	**325 g broth base + 175 g urea**
Appearance – agar base:	**Pinkish, homogeneous, hygroscopic powder**
Appearance – urea:	**White pellet**
pH before autoclaving:	**6,4 - 6,6 at 25 °C**
pH after autoclaving:	**6,6 - 7,0 at 25 °C**

Direction: Suspend 19 g broth base and 10 g urea in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula of ready medium in g/l

Peptones	1,000
Glucose	1,000
Sodium chloride	5,000
Urea	20,000
Phenol red	0,012
Buffers	2,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Proteus mirabilis*
Negative control: *Escherichia coli*

References: Christensen (1946) J. Bact. 52: 461.

UREA INDOLE BROTH

A differential medium for the differentiation of micro-organisms, especially the Enterobacteriaceae, on the basis of urease activity and indole production.

Code Number:	**URI20500-M**
Packaging:	**325 g broth base + 175 g urea**
Colour:	**Pinkish**
Appearance – agar base:	**Pinkish, homogeneous, hygroscopic powder**
Appearance – urea:	**White pellet**
pH before autoclaving:	**6,4 - 6,6 at 25 °C**
pH after autoclaving:	**6,6 - 7,0 at 25 °C**

Direction: Suspend 18 g broth base and 10 g urea in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 115 °C for 5 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula of ready medium in g/l

Peptones	10,000
Sodium chloride	5,000
Urea	10,000
Phenol red	0,012
Buffers	3,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Proteus mirabilis, Klebsiella pneumoniae*
Negative control: *Escherichia coli*

References: Roland at al. (1947) Ann. Inst. Pasteur 73: 914.

VIOLET RED BILE GLUCOSE AGAR, PH EUR

A glucose containing selective and differential medium for the detection and enumeration of enterobacteriaceae according to PH EUR (Agar Medium F - Crystal Violet Neutral Red Bile Agar with Glucose).

Code Number:	**VBE20500, VBE25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,4 (approx.) at 25 °C**

Direction: Suspend 51,5 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Gelatin peptone	7,000
Yeast extract	3,000
Bile salts	1,500
Glucose monohydrate	10,000
Lactose monohydrate	10,000
Sodium chloride	5,000
Neutral red	0,030
Crystal violet	0,002
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Staphylococcus aureus*

References: European Pharmacopoeia 5.6

VIOLET RED BILE GLUCOSE AGAR, PH EUR - USP

A glucose containing selective and differential medium for the detection and enumeration of Enterobacteriaceae according to PH EUR (Violet Red Bile Glucose Agar – Harmonised).

Code Number:	**VBH20500, VBH25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,4 (approx.) at 25 °C**

Direction: Suspend 41,5 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Gelatin peptone	7,000
Yeast extract	3,000
Bile salts	1,500
Glucose monohydrate	10,000
Sodium chloride	5,000
Neutral red	0,030
Crystal violet	0,002
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Staphylococcus aureus*

References: European Pharmacopoeia 5.6
Mossel (1985) int. 7. Food Microbiol. 2: 27.
ISO 7402: 1993

VIOLET RED BILE LACTOSE AGAR

A lactose containing selective and differential medium for the detection and enumeration of coliforms.

Code Number:	**VBL20500, VBL25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,4 (approx.) at 25 °C**

Direction: Suspend 41,5 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	10,000
Bile salts	1,500
Lactose	10,000
Sodium chloride	5,000
Neutral red	0,030
Crystal violet	0,002
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Staphylococcus aureus*

References: APHA (1978) Standard Method for the Examination of Dairy Product. 14th ed.
ISO 4832: 2006

VIOLET RED BILE LACTOSE AGAR, BUFFERED

A lactose containing selective and differential medium for the detection and enumeration of coliforms from soured milk products.

Code Number:	**VBB20500, VBB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,4 (approx.) at 25 °C**

Direction: Suspend 44 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Peptones	10,000
Bile salts	1,500
Lactose	10,000
Sodium chloride	5,000
Neutral red	0,030
Crystal violet	0,002
Buffers	3,000
Agar	14,500

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Proteus mirabilis*
Negative control: *Staphylococcus aureus*

VOGEL-JOHNSON AGAR BASE, USP

A selective medium for the isolation of *Staphylococcus aureus* according to USP.

Code Number:	**VJA20500, VJA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 30 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically one dose (0,5 ml) of Potassium Tellurite Solution, Sterile (PTS80030). Mix well before pouring.

Formula in g/l

Peptones	15,000
Mannitol	10,000
Lithium chloride	5,000
Glycine	10,000
Phenol red	0,025
Buffers	5,000
Agar	15,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Staphylococcus aureus*
Negative control: *Escherichia coli*

References: Vogel and Johnson (1961) J. Pub. Hlth. Lab.18: 131.
United States Pharmacopoeia XXVIII. (2005)

WILKINS-CHALGREN AGAR

A non-selective medium for the general cultivation of anaerobe micro-organisms especially recommended for antimicrobial susceptibility testing.

Code Number:	**WCA20500, WCA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 46 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. If it is necessary to supplement with blood cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood. Mix well before pouring.

Formula in g/l

Nutrient substrate (peptones, extracts)	25,000
Glucose	1,000
Sodium chloride	5,000
Sodium pyruvate	1,000
L-Arginine	1,000
Vitamins	0,006
Agar	13,000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Bacteroides fragilis, Peptostreptococcus anaerobius*

References: Wilkins and Chalgren (1976) Antimicr. Agents Chemoter. 10: 926.

WILKINS-CHALGREN BROTH

An enrichment medium for the general cultivation of anaerobe micro-organisms especially recommended for antimicrobial susceptibility testing.

Code Number:	**WCB20500, WCB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,1 (approx.) at 25 °C**

Direction: Suspend 33 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Nutrient substrate (peptones, extracts)	25,000
Glucose	1,000
Sodium chloride	5,000
Sodium pyruvate	1,000
L-Arginine	1,000
Vitamins	0,006

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Bacteroides fragilis, Peptostreptococcus anaerobius*

References: Wilkins and Chalgren (1976) Antimicr. Agents Chemother. 10: 926.

WL DIFFERENTIAL AGAR

A selective medium for the control of industrial fermentation, particularly the processing of beer.

Code Number:	**WLD20500, WLD25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,5 (approx.) at 25 °C**

Direction: Suspend 75 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	9,2000
Glucose	50,0000
Potassium chloride	0,5500
Calcium chloride	0,1250
Magnesium sulphate	0,1250
Ferric chloride	0,0025
Manganese sulphate	0,0025
Cycloheximide	0,0040
Bromocresol green	0,0220
Agar	15,0000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Lactobacillus acidophilus*
Negative control: *Saccharomyces cerevisiae*

References: Green and Gray (1950) Wallerstein Lab. Commun. 13: 357.

WL DIFFERENTIAL BROTH

A selective medium for the control of industrial fermentation, particularly the processing of beer.

Code Number:	**WDB20500, WDB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,5 (approx.) at 25 °C**

Direction: Suspend 60 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	9,2000
Glucose	50,0000
Potassium chloride	0,5500
Calcium chloride	0,1250
Magnesium sulphate	0,1250
Ferric chloride	0,0025
Manganese sulphate	0,0025
Cycloheximide	0,0040
Bromocresol green	0,0220

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Lactobacillus acidophilus*
Negative control: *Saccharomyces cerevisiae*

References: Green and Gray (1950) Wallerstein Lab. Commun. 13: 357.

WL NUTRIENT AGAR

A selective medium for the control of industrial fermentation, particularly the processing of beer.

Code Number:	**WLN20500, WLN25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,5 (approx.) at 25 °C**

Direction: Suspend 75 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	9,2000
Glucose	50,0000
Potassium chloride	0,5500
Calcium chloride	0,1250
Magnesium sulphate	0,1250
Ferric chloride	0,0025
Manganese sulphate	0,0025
Bromocresol green	0,0220
Agar	15,0000

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Lactobacillus acidophilus, Saccharomyces cerevisiae*

References: Green and Gray (1950) Wallerstein Lab. Commun. 13: 357.

WL NUTRIENT BROTH

A selective medium for the control of industrial fermentation, particularly the processing of beer.

Code Number:	**WLB20500, WLB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**5,5 (approx.) at 25 °C**

Direction: Suspend 60 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	9,2000
Glucose	50,0000
Potassium chloride	0,5500
Calcium chloride	0,1250
Magnesium sulphate	0,1250
Ferric chloride	0,0025
Manganese sulphate	0,0025
Bromocresol green	0,0220

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Lactobacillus acidophilus, Saccharomyces cerevisiae*

References: Green and Gray (1950) Wallerstein Lab. Commun. 13: 357.

WORT AGAR BASE

A selective medium for the cultivation and enumeration of yeasts.

Code Number:	**WOA20500, WOA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**4,8 (approx.) at 25 °C**

Direction: Suspend 49 g in one litre of distilled water. Add 2,5 ml of Glycerol Supplement (GLC80100) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool quickly!

Warning!

Prolonged heating diminish the gel strength of the agar.

Formula in g/l

Peptones	1,00
Malt extract	15,00
Maltose	12,75
Dextrin	2,75
Ammonium chloride	1,00
Buffers	1,50
Agar	15,00

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Saccharomyces cerevisiae*
Negative control: *Escherichia coli*

References: Parfitt (1933) J. Dairy Sci. 16: 141.

WORT BROTH BASE

An enrichment medium for the cultivation of yeasts.

Code Number:	**W0B20500, W0B25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**4,8 (approx.) at 25 °C**

Direction: Suspend 34 g in one litre of distilled water. Add 2,5 ml of Glycerol Supplement (GLC80100). Mix well and heat gently to dissolve the medium completely. Dispense into final containers. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	1,00
Malt extract	15,00
Maltose	12,75
Dextrin	2,75
Ammonium chloride	1,00
Buffers	1,50

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Saccharomyces cerevisiae*
Negative control: *Escherichia coli*

References: Parfitt (1933) J. Dairy Sci. 16: 141.

XLD AGAR, PH EUR - USP

A selective and differential medium for the isolation and differentiation of Gram-negative micro-organisms, especially *Shigella* spp. according to PH EUR (Agar Medium K - Xylose Lysine Deoxycholate Agar - Harmonised).

Code Number:	**XLD20500, XLD25000**
Colour:	**Pinkish**
Appearance:	**Homogeneous hygroscopic powder**
Final pH:	**7,4 (approx.) at 25 °C**

Direction: Suspend 57 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Cool quickly! Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula in g/l

Yeast extract	3,00
Lactose monohydrate	7,50
Sucrose	7,50
Xylose	3,50
Sodium thiosulphate	6,80
Sodium chloride	5,00
Sodium deoxycholate	2,50
Ferric ammonium citrate	0,80
L-Lysine	5,00
Phenol red	0,08
Agar	15,30

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Shigella flexneri, Salmonella enteritidis*
Negative control: *Enterococcus faecalis*

References: European Pharmacopoeia 5.6

YEAST EXTRACT AGAR

A non-selective medium for the plate count of micro-organisms in water and dairy products.

Code Number:	**YEA20500, YEA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,2 (approx.) at 25 °C**

Direction: Suspend 25 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	7
Yeast extract	3
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Escherichia coli, Staphylococcus aureus*

References: Windle Taylor (1958) The Examination of Waters and Water Supplies, 7th ed.

YEAST MALT AGAR

A non-selective medium for the cultivation of fungi.

Code Number:	**YMA20500, YMA25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,2 (approx.) at 25 °C**

Direction: Suspend 37 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	6
Malt extract	3
Yeast extract	3
Glucose	10
Agar	15

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Candida albicans*

References: Atlas and Park (1993) Handbook of Micr. Media

YERSINIA AGAR BASE

A selective and differential medium for the isolation of *Yersinia enterocolitica.*

Code Number:	**YAB20500, YAB25000**
Colour:	**Beige**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 30 g in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Yersinia (CIN) Selective Supplement (CIN80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula in g/l

Peptones	24,000
Mannitol	20,000
Sodium pyruvate	2,000
Sodium chloride	1,000
Sodium deoxycholate	0,500
Magnesium sulphate	0,010
Neutral red	0,020
Crystal violet	0,001
Agar	12,500

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at 2-8 °C.

Quality Control:
Positive control: *Yersinia enterocolitica*
Negative control: *Escherichia coli*

References: Schiemann (1979) Can. J. Microbiol. 25: 1928.

YEAST MALT BROTH

A non-selective medium for the cultivation of fungi.

Code Number:	**YMB20500, YMB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**6,2 (approx.) at 25 °C**

Direction: Suspend 23 g in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula in g/l

Peptones	7
Malt extract	3
Yeast extract	3
Dextrose	10

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room temperature.

Quality Control:
Positive control: *Candida albicans*

References: Atlas and Park (1993) Handbook of Micr. Media

YERSINIA BROTH BASE

A selective medium for the selective enrichment of *Yersinia enterocolitica.*

Code Number:	**YBB20500, YBB25000**
Colour:	**Yellowish**
Appearance:	**Homogeneous hygroscopic powder**
pH before autoclaving:	**7,4 (approx.) at 25 °C**

Direction: Suspend 16,5 g in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Yersinia (CIN) Selective Supplement (CIN80004) reconstituted with 4 ml of sterile distilled water. Mix well and dispense aseptically into sterile test tubes.

Formula in g/l

Peptones	28,0
Sodium pyruvate	2,5
Buffers	2,5

Storage conditions: Store the dehydrated medium tightly closed in a dry place at room temperature and use before the expiry date on the label. Store the prepared medium protected from light at room tempera-ture.

Quality Control:
Positive control: *Yersinia enterocolitica*
Negative control: *Pseudomonas aeruginosa, Enterococcus faecalis*

References: Schiemann (1979) Can. J. Microbiol. 25: 1298.

III. SUPPLEMENTS

AEROMONAS SELECTIVE SUPPLEMENT
AES80004

FOR 500 ml of AEROMONAS AGAR

Description: A freeze-dried mixture for the isolation of *Aeromonas* spp.

Direction: Suspend 30 g Aeromonas Agar Base in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of Aeromonas Selective Supplement (AES80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula

Ampicillin	2,5 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

BISMUTH SULPHITE INDICATOR
BSI81000

FOR 5 litre of BISMUTH SULPHITE AGAR

Description: Chemical mixture for the isolation of salmonellae including *Salmonella typhi*.

Direction: See the product information of Bismuth Sulphite Agar.

Warning!
– Before use or measuring heat the indicator to room temperature care-fully. The crystals precipitated during chilled storage must be re-dissolved completely. Several refrigeration - warm up process can not cause any damage.
– To ensure homogeneity shake well the indicator before use.

Storage conditions: Store in the dark, at 2-8 °C.

BORDETELLA SELECTIVE SUPPLEMENT
BSS80004

FOR 500 ml of BORDETELLA AGAR

Description: A freeze-dried mixture for the isolation of *Bordetella* spp.

Direction: Suspend 26 g Charcoal Agar Base in 450 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood and the content of one vial of Bordetella Selective Supplement (BSS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Cephalexin	20 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

BRILLIANT GREEN SOLUTION, 0,1%
BGS80100-DC

FOR 5 litre of TETRATHIONATE BROTH, MULLER-KAUFFMAN
FOR 5 litre of TETRATHIONATE BROTH, MULLER-KAUFFMAN (MKTTn)

Description: Brilliant green solution for the preparation of tetrathionate broths.

Direction: Different. See the product information of relevant media.

Formula

Brilliant green	0,1 %

Storage conditions: Store in the dark, at 2-8 °C.

BRILLIANT GREEN SOLUTION, STERILE
BGS80030

FOR 30 litre of BRILLIANT GREEN AGAR, HUMAN

Description: A brilliant green solution for the isolation of salmonellae including *Salmonella typhi* from clinical specimens.

Direction: Suspend 21,5 g Brilliant Green Agar Base, Human in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically one dose (0,5 ml) of Brilliant Green Solution, Sterile (BGS80030). Mix well before pouring.

Formula

Brilliant green	0,1 %

Storage conditions: Store in the dark, at 2-8 °C.

BRUCELLA SELECTIVE SUPPLEMENT
BAS80004

FOR 500 ml of BRUCELLA AGAR

Description: A freeze-dried mixture for the isolation of *Brucella* spp.

Direction: Suspend 22,5 g Brucella Agar Base in 460 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C. Add aseptically 4 ml of 1:1 mixture of methanol and sterile distilled water to one vial of Brucella Selective Supplement (BAS80004) to form suspension. Incubate for 15 minutes at 37 °C. Shake well and add immediately to the agar base together with 35 ml of sterile inactivated (i.e. serum held at 56 °C for 30 minutes) horse serum. Mix well before pouring.

Formula

Bacitracin	250,0 mg / vial
Cycloheximide	50,0 mg / vial
Nystatin	11,0 mg / vial
Vancomycin	10,0 mg / vial
Nalidixic acid	2,5 mg / vial
Polymyxin B	0,4 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

CAMPYLOBACTER GROWTH SUPPLEMENT
CGS80004

FOR 500 ml OF CAMPYLOBACTER AGAR

Description: A freeze-dried mixture for the enhanced growth of *Campylobacter* spp.

Direction: Suspend 19 g Campylobacter Agar Base in 470 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 25 ml of sterile lysed horse blood and the contents of one vial of Campylobacter Growth Supplement (CGS80004) reconstituted with 4 ml of sterile distilled water and one vial of Campylobacter Selective Supplement, Skirrow (CSS80004) reconstituted with 4 ml of sterile distilled water, or one vial of Campylobacter Selective Supplement, Preston (CPS80004) reconstituted with 4 ml of 1:1 mixture of acetone and sterile distilled water, or one vial of Campylobacter Selective Supplement, Blaser-Wang (CBW80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Sodium pyruvate	125 mg / vial
Sodium metabisulphite	125 mg / vial
Ferrous sulphate	125 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

CAMPYLOBACTER SELECTIVE SUPPLEMENT, BLASER-WANG
CBW80004

FOR 500 ml of CAMPYLOBACTER AGAR, BLASER-WANG

Description: A freeze-dried mixture for the isolation of *Campylobacter* spp.

Direction: Suspend 19 g Campylobacter Agar Base in 470 ml of distilled water and heat with frequent agitation until the medium boils well. Steril-ise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 25 ml of lysed horse blood and the contents of one vial of Campylobacter Growth Supplement (CGS80004) and one vial of Campylobacter Selective Supplement, Blaser-Wang (CBW80004) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Cephalothin	7,5 mg / vial
Vancomycin	5,0 mg / vial
Trimethoprim	2,5 mg / vial
Amphotericin B	1,0 mg / vial
Polymyxin B	0,2 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

CAMPYLOBACTER SELECTIVE SUPPLEMENT, BOLTON
CBS80004

FOR 500 ml of BOLTON BROTH

Description: A freeze-dried mixture for the selective enrichment of *Campylobacter* spp.

Direction: Suspend 14 g Bolton Broth Base in 470 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 25 ml of sterile lysed horse blood and the contents of one vial of Campylobacter Selective Supplement, Bolton (CBS80004) reconstituted with 4 ml of sterile distilled water. Mix well and dispense aseptically into sterile test tubes.

Formula

Cycloheximide	25 mg / vial
Cefoperazone	10 mg / vial
Trimethoprim	10 mg / vial
Vancomycin	10 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

CAMPYLOBACTER SELECTIVE SUPPLEMENT, CCDA
CCS80004

FOR 500 ml of CAMPYLOBACTER AGAR, CCDA

Description: A freeze-dried mixture for the isolation of *Campylobacter* spp.

Direction: Suspend 24 g Campylobacter Blood-free (CCDA) Agar Base in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Campylobacter Selective Supplement, CCDA (CCS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Cefoperazone	16 mg / vial
Amphotericin B	5 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

CAMPYLOBACTER SELECTIVE SUPPLEMENT, KARMALI
CPK80004

FOR 500 ml of CAMPYLOBACTER AGAR, KARMALI

Description: A freeze-dried mixture for the isolation of *Campylobacter* spp.

Direction: Suspend 23 g Campylobacter Agar Base, Karmali in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Campylobacter Selective Supplement, Karmali (CPK80004), reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Cycloheximide	50 mg / vial
Sodium pyruvate	50 mg / vial
Cefoperazone	16 mg / vial
Vancomycin	10 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

CAMPYLOBACTER SELECTIVE SUPPLEMENT, PRESTON
CPS80004

FOR 500 ml of CAMPYLOBACTER AGAR, PRESTON

Description: A freeze-dried mixture for the isolation of *Campylobacter* spp.

Direction: Suspend 19 g Campylobacter Agar Base in 470 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 25 ml of sterile lysed horse blood and the contents of one vial of Campylobacter Growth Supplement (CGS80004) reconstituted with 4 ml of sterile distilled water and one vial of Campylobacter Selective Supplement, Preston (CPS80004) reconstituted with 4 ml of 1:1 mixture of acetone and sterile distilled water. Mix well before pouring.

Formula

Cycloheximide	50,0 mg / vial
Rifampicin	5,0 mg / vial
Trimethoprim	5,0 mg / vial
Polymyxin B	0,4 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

NEW PRODUCT

CEREUS SUPPLEMENT
CES80050

FOR 500 ml of ChromoBio® CEREUS AGAR

Description: A powdered mixture for the isolation of *Bacillus cereus*.

Direction: Suspend 16,5 g ChromoBio® Cereus Base in 450 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. In the meantime add 50 ml of sterile distilled water to one bottle of Cereus Supplement (CES80050). Mix well and soak the suspension about one hour – repeating the mixing a few times – until the lecitin dissolves completely. The ready supplement is homogeneous turbid, but exempt from any precipitate. Cool to 50 °C the agar base and add aseptically the supplement. Mix well before pouring. To ensure the complete homogeneity repeat the mixing a few times during the pouring again.

Formula

Lecitin	1000 mg / vial
Trimethoprim	5 mg / vial
Polymyxin B	53.000 IU / vial

Storage conditions: Store in the dark, at 2-8 °C.

CAMPYLOBACTER SELECTIVE SUPPLEMENT, SKIRROW
CSS80004

FOR 500 ml of CAMPYLOBACTER AGAR, SKIRROW

Description: A freeze-dried mixture for the isolation of *Campylobacter* spp.

Direction: Suspend 19 g Campylobacter Agar Base in 470 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 25 ml of sterile lysed horse blood and the contents of one vial of Campylobacter Growth Supplement (CGS80004) and one vial of Campylobacter Selective Supplement, Skirrow (CSS80004) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Vancomycin	5,0 mg / vial
Trimethoprim	2,5 mg / vial
Polymyxin B	0,2 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

CEFIXIME TELLURITE SELECTIVE SUPPLEMENT
CTS80004

FOR 500 ml of MACCONKEY AGAR, SORBITOL

Description: A freeze-dried mixture for the isolation of *E. coli O157:H7*.

Direction: Suspend 26 g MacConkey Agar Base, Sorbitol in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Cefixime Tellurite Selective Supplement (CTS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Potassium tellurite	1,250 mg / vial
Cefixime	0,025 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

CLOSTRIDIUM SELECTIVE SUPPLEMENT
CDS80004

FOR 500 ml of CLOSTRIDIUM DIFFICILE AGAR

Description: A freeze-dried mixture for the isolation of *Clostridium difficile.*

Direction for blood agar: Suspend 34,5 g Clostridium Difficile Agar Base in 460 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 35 ml of sterile defibrinated blood and the contents of one vial of Clostridium Selective Supplement (CDS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Direction for blood free agar: Suspend 34,5 g Clostridium Difficile (CCFA) Agar Base in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Clostridium Selective Supplement (CDS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Because of sensitivity of some strains of *Clostridium difficile*, the amount of cycloserine and cefoxitin is reduced. If you want to compensate the reduction in selectivity, treat the specimen with alcohol before inoculation.

Formula

D-Cycloserine	125 mg / vial
Cefoxitin	4 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

DIASALM-MSRV MAGNESIUM CHLORIDE SOLUTION
DSM80500

FOR 500 g of DIASALM MEDIUM BASE
FOR 500 g of RAPPAPORT-VASSILIADIS (MSRV) MEDIUM BASE

Description: A magnesium chloride solution for the preparation of DIASALM and Rappaport-Vassiliadis (MSRV) medium.

Direction: Fill up 20 ml of DIASALM-MSRV Magnesium Chloride Solution (DSM80500) to 500 ml with distilled water and suspend 20 g of DIASALM Medium Base, or fill up 10 ml of DIASALM-MSRV Magnesium Chloride Solution (DSM80500) to 500 ml with distilled water and suspend 10,5 g of Rappaport-Vassiliadis (MSRV) Medium Base. Heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of Novobiocin (5 mg) Supplement (DSN80004-05) (in case of DIASALM) or one vial of Novobiocin (10 mg) Supplement (DSN80004-10) (in case of RAPPAPORT-VASSILIADIS) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula

Magnesium chloride	600 g/l

Storage conditions: Store at room temperature.

DTM SELECTIVE SUPPLEMENT
DTS80004

FOR 500 ml of DTM AGAR

Description: A freeze-dried mixture for the isolation of dermatophytes.

Direction: Suspend 20 g DTM Agar Base (DTM20500) in 500 ml of dis-tilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of DTM Selective Supplement (DTS80004) reconstituted with 4 ml of 1:1 mixture of ethanol and sterile distilled water. Mix well before pouring.

Formula

Cycloheximide	0,25 g / vial
Chlortetracycline	0,05 g / vial
Gentamicin	0,05 g / vial

Storage conditions: Store in the dark, at 2-8 °C.

ENDO BASIC FUCHSIN SOLUTION
FBS80060

FOR 500 g of ENDO and ENDO LES AGAR BASE
FOR 250 g of ENDO M BROTH BASE

Description: A basic fuchsin solution for the preparation of Endo media.

Direction: Suspend 42 g Endo Agar Base or 50 g Endo LES Agar Base or 48 g Endo M Broth Base in one litre of distilled water. Add 5 ml (in case of agars) or 10 ml (in case of broth) of Endo Basic Fuchsin Solution (FBS80060). Mix well and heat with frequent agitation until the medium boils well (in case of agars) or heat gently to dissolve the medium completely (in case of broth). Sterilise by autoclaving at 121 °C for 15 minutes. Mix well again before pouring ((in case of agars) or dispensing ((in case of broth).

Formula

Basic fuchsin	10%

Storage conditions: Store at room temperature.

ENDO BASIC FUCHSIN SOLUTION, DEV
FBS80045

FOR 500 g of ENDO AGAR BASE, DEV

Description: A basic fuchsin solution for the preparation of Endo media.

Direction: Suspend 58 g Endo Agar Base, DEV in one litre of distilled water. Add 5 ml of Endo Basic Fuchsin Solution, DEV (FBS80045). Mix well and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Mix well again before pouring.

Formula

Basic fuchsin	10%

Storage conditions: Store at room temperature.

FERRIC AMMONIUM CITRATE SOLUTION, STERILE
FAC80030

FOR 30 litre of MEDIA

Description: A ferric ammonium citrate solution for the differentiation of *Clostridium* spp.

Direction: Suspend the appropriate quantity of the different medium bases in 500 ml of distilled water and heat with frequent agitation until the medium boils well (in case of agars) or heat gently to dissolve the medium completely (in case of broths). Sterilise by autoclaving a t 121 °C for 15 minutes. Cool to 50 °C and add aseptically one dose (0,5 ml) of Sodium Metabisulphite Solution, Sterile (SMS80030) and one dose (0,5 ml) of Ferric Ammonium Citrate Solution, Sterile (FAC80030). Mix well before pouring (in case of agars) or dispensing (in case of broths).

Formula

Ferric ammonium citrate	60 %

Storage conditions: Store in the dark, at 2-8 °C.

GC SELECTIVE SUPPLEMENT, VCN
VCN80004

FOR 500 ml of SELECTIVE THAYER-MARTIN AGAR

Description: A freeze-dried mixture for the isolation of pathogenic neisseriae.

Direction for Thayer-Martin Agar: Suspend 19,5 g GC Agar Base in 460 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 35 ml of sterile defibrinated blood and 'chocolate' by heating at 80 °C for 10 min. Cool to 50 °C. Dissolve the contents of one vial of Growth Factor Mixture Hydration Fluid with 5 ml of sterile distilled water and add aseptically to the Growth Factor Mixture (GFM80005). Mix well and add aseptically to the medium. Dissolve the contents of one vial of GC Selective Supplement, VCN (VCN80004) with 4 ml of sterile distilled water and aseptically add to the above at 50 °C. Mix well before pouring.

Formula

Colistin	3,75 mg / vial
Nystatin	1,50 mg / vial
Vancomycin	1,50 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

GC SELECTIVE SUPPLEMENT, VCNT
VCT80004

FOR 500 ml of SELECTIVE THAYER-MARTIN AGAR

Description: A freeze-dried mixture for the isolation of pathogenic neisseriae. This supplement prevents the swarming of *Proteus* spp.

Direction for Thayer-Martin Agar: Suspend 19,5 g GC Agar Base in 460 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 35 ml of sterile defibrinated blood and 'chocolate' by heating at 80 °C for 10 min. Cool to 50 °C. Dissolve the contents of one vial of Growth Factor Mixture Hydration Fluid with 5 ml of sterile distilled water and add aseptically to the Growth Factor Mixture (GFM80005). Mix well and add aseptically to the medium. Dissolve the contents of one vial of GC Selective Supplement, VCNT (VCT80004) with 4 ml of sterile distilled water and add aseptically to the above at 50 °C. Mix well before pouring.

Formula

Colistin	3,75 mg / vial
Trimethoprin	2,50 mg / vial
Nystatin	1,50 mg / vial
Vancomycin	1,50 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

GLYCEROL SUPPLEMENT

GLC80100 - 100 ml
GLC80500 - 500 ml

Description: Glycerol for the preparation of some media.

Direction: Different. See the product information of relevant media.

Formula

Glycerol, bacteriological grade	100 ml
Glycerol, bacteriological grade	500 ml

Storage conditions: Store at room temperature.

GROWTH FACTOR MIXTURE (WITH HYDRATION FLUID)
GFM80005

FOR 500 ml of THAYER-MARTIN or CHOCOLATE or CHARCOAL AGAR

Description: An essential growth factor freeze-dried mixture for the enhanced growth of fastidious micro-organisms.

Direction: Suspend 26 g Charcoal Agar Base or 16,5 g Chocolate Agar Base or 19,5 g GC Agar Base in 460 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 35 ml sterile defibrinated blood and 'chocolate' by heating at 80 °C for 10 min. Cool to 50 °C. Dissolve the content of one vial of Growth Factor Mixture Hydration Fluid with 5 ml of sterile distilled water and add aseptically to the Growth Factor Mixture (GFM80005). Mix well and add aseptically to the medium. Mix well before pouring.

Formula

Glucose	1000,00 mg / vial
L-Cysteine	259,00 mg / vial
L-Glutamine	100,00 mg / vial
L-Cystine	11,00 mg / vial
Adenine	10,00 mg / vial
NAD	2,50 mg / vial
Cocarboxylase	1,00 mg / vial
Guanine	0,30 mg / vial
Ferric nitrate	0,20 mg / vial
p-Aminobenzoic acid	0,13 mg / vial
Vitamin B12	0,10 mg / vial
Thiamine	0,03 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

GSP SELECTIVE SUPPLEMENT
GSU80004

FOR 500 ml of GSP AGAR

Description: A freeze-dried mixture for the detection and differentiation of *Pseudomonas* and *Aeromonas* spp.

Direction: Suspend 23 g GSP Agar Base in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool quickly to 50 °C and add aseptically the contents of one vial of GSP Selective Supplement (GSU80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula

Penicillin	70 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

HAEMOPHILUS SUPPLEMENT
HTS80004

FOR 500 ml of HAEMOPHILUS TEST AGAR

Description: A freeze-dried mixture for the isolation of *Haemophilus influenzae.*

Direction: Suspend 21,5 g Haemophilus Test Agar Base in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Haemophilus Supplement (HTS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

NAD	7,5 mg / vial
Hemin	7,5 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

K AGAR MALIC ACID SOLUTION
KMS80005

FOR 500 ml of K AGAR

Description: A malic acid solution for the preparation of K agar.

Direction: Suspend 12 g K Agar Base in 500 ml of distilled water. Add 0,5 ml of TWEEN 80 Supplement (TWS80100) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool quickly to 50 °C and add aseptically 1 vial of K Agar Malic Acid Solution (KMS80005). Mix well before pouring.

Warning!
Once acidified with malic acid, the medium should not be re-heated.

Formula

Malic acid	10%

Storage conditions: Store at room temperature.

LACTIC ACID SOLUTION
LAS80100

Description: A lactic acid solution for pH adjustment of some media.

Direction: Different. See the product information of media.

Formula

Lactic acid	10%

Storage conditions: Store at room temperature.

LEGIONELLA BCYE GROWTH FACTOR MIXTURE WITH CYSTEINE

RENEWED PRODUCT

LGF80005-01 FOR 100 ml of AGAR
LGF80005-02 FOR 500 ml of AGAR

Description: A liquid essential growth factor mixture for the isolation of legionellae.

Direction: Prepare the appropriate amount of Legionella (CYE) Agar Base suspension (3,6 g or 18 g agar base in 100 ml or 500 ml of distilled water) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C.

In case of 100 ml add aseptically one vial of Legionella BCYE Growth Factor Mixture with Cysteine (LGF80005-01). Mix well before pouring.
In case of 500 ml add aseptically one vial of Legionella BCYE Growth Factor Mixture with Cysteine (LGF80005-02). Mix well before pouring.

Formula

Essential growth factors	0,10 g / litre agar
Ferric pyrophosphate	0,25 g / litre agar
L-Cysteine	0,40 g / litre agar

Storage conditions: Store in the dark, at 2-8 °C.
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LEGIONELLA BCYE GROWTH FACTOR MIXTURE WITHOUT CYSTEINE

RENEWED PRODUCT

LWC80005-01 FOR 100 ml of AGAR
LWC80005-02 FOR 500 ml of AGAR

Description: A liquid essential growth factor mixture for the isolation of legionellae.

Direction: Prepar the appropriate amount of Legionella (CYE) Agar Base suspension (3,6 g or 18 g agar base in 100 ml or 500 ml of distilled water) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C.

In case of 100 ml add aseptically one vial of Legionella BCYE Growth Factor Mixture without Cysteine (LWC80005-01). Mix well before pour-ing.
In case of 500 ml add aseptically one vial of Legionella BCYE Growth Factor Mixture without Cysteine (LWC80005-02). Mix well before pour-ing.

Formula

Essential growth factors	100 mg / litre agar
Ferric pyrophosphate	250 mg / litre agar

Storage conditions: Store in the dark, at 2-8 °C.

LEGIONELLA SELECTIVE SUPPLEMENT, BMPA

RENEWED PRODUCT

BMP80005-01 FOR 100 ml of AGAR
BMP80005-02 FOR 500 ml of AGAR

Description: A freeze-dried mixture for the isolation of legionellae.

Direction: Prepare the appropriate amount of Legionella (CYE) Agar Base suspension (3,6 g or 18 g agar base in 100 ml or 500 ml of distilled water) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C.

In case of 100 ml add aseptically one vial of Legionella BCYE Growth Factor Mixture with Cysteine (LGF80005-01). Add 5 ml of distilled wa-ter to one vial of Legionella Selective Supplement, BMPA (BMP80005-01). Shake well and add to the medium. Mix well before pouring.
In case of 500 ml add aseptically one vial of Legionella BCYE Growth Factor Mixture with Cysteine (LGF80005-02). Add 5 ml of distilled wa-ter to one vial of Legionella Selective Supplement, BMPA (BMP80005-02). Shake well and add to the medium. Mix well before pouring.

Formula

Cefamandole	4 mg / litre agar
Polymyxin B	10 mg / litre agar
Anisomycin	80 mg / litre agar

Storage conditions: Store in the dark, at 2-8 °C.

LEGIONELLA SELECTIVE SUPPLEMENT, GVPC

RENEWED PRODUCT

GVP80005-01 FOR 100 ml of AGAR
GVP80005-02 FOR 500 ml of AGAR

Description: A freeze-dried mixture for the isolation of legionellae.

Direction: Prepare the appropriate amount of Legionella (CYE) Agar Base suspension (3,6 g or 18 g agar base in 100 ml or 500 ml of distilled water) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C.

In case of 100 ml add aseptically one vial of Legionella BCYE Growth Factor Mixture with Cysteine (LGF80005-01). Add 5 ml of distilled wa-ter to one vial of Legionella Selective Supplement, GVPC (GVP80005-01). Shake well and add to the medium. Mix well before pouring.
In case of 500 ml add aseptically one vial of Legionella BCYE Growth Factor Mixture with Cysteine (LGF80005-02). Add 5 ml of distilled wa-ter to one vial of Legionella Selective Supplement, GVPC (GVP80005-02). Shake well and add to the medium. Mix well before pouring.

Formula

Glycine	3.000 mg / litre agar
Polymyxin B	10 mg / litre agar
Vancomycin	1 mg / litre agar
Cycloheximide	80 mg / litre agar

Storage conditions: Store in the dark, at 2-8 °C.

LEGIONELLA SELECTIVE SUPPLEMENT, MWY

RENEWED PRODUCT

MWY80005-01 FOR 100 ml of AGAR
MWY80005-02 FOR 500 ml of AGAR

Description: A freeze-dried mixtures for the isolation of legionellae.

Direction: Prepare the appropriate amount of Legionella (CYE) Agar Base suspension (3,6 g or 18 g agar base in 100 ml or 500 ml of distilled water) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C.

In case of 100 ml add aseptically one vial of Legionella BCYE Growth Factor Mixture with Cysteine (LGF80005-01). Add 5 ml of distilled wa-ter to one vial of Legionella Selective Supplement, MWY (MWY80005-01). Shake well and add to the medium. Mix well before pouring.
In case of 500 ml add aseptically one vial of Legionella BCYE Growth Factor Mixture with Cysteine (LGF80005-02). Add 5 ml of distilled wa-ter to one vial of Legionella Selective Supplement, MWY (MWY80005-02). Shake well and add to the medium. Mix well before pouring.

Formula

Glycine	3.000 mg / litre agar
Polymyxin B	8 mg / litre agar
Anisomycin	80 mg / litre agar
Vancomycin	1 mg / litre agar
Bromothymol blue	10 mg / litre agar
Bromocresol purple	10 mg / litre agar

Storage conditions: Store in the dark, at 2-8 °C.

LISTERIA SELECTIVE SUPPLEMENT, HALF FRASER

LSH80004

FOR 500 ml of HALF FRASER BROTH

Description: A freeze-dried mixture for the isolation of *Listeria monocytogenes.*

Direction for Half Fraser Broth: Suspend 27,5 g Listeria Enrichment Broth Base, UVM - Fraser in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Listeria Selective Supplement, Half Fraser (LSH80004) reconstituted with 4 ml of 1:1 mixture of ethanol and sterile distilled water. Mix well. Dispense aseptically into sterile final containers.

Formula

Ferric ammonium citrate	250,00 mg / vial
Acriflavine	6,25 mg / vial
Nalidixic acid	5,00 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

LISTERIA SELECTIVE SUPPLEMENT, FRASER

LSF80004

FOR 500 ml of FRASER BROTH

Description: A freeze-dried mixture for the isolation of *Listeria monocytogenes*.

Direction for Fraser Broth: Suspend 27,5 g Listeria Enrichment Broth Base, UVM – Fraser in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Listeria Selective Supplement, Fraser (LSF80004) reconstituted with 4 ml of 1:1 mixture of ethanol and sterile water. Mix well. Dispense aseptically into sterile final containers.

Formula

Ferric ammonium citrate	250,0 mg / vial
Acriflavine	12,5 mg / vial
Nalidixic acid	10,0 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

LISTERIA SELECTIVE SUPPLEMENT, OXFORD

LSO80004

FOR 500 ml of OXFORD AGAR

Description: A freeze-dried mixture for the isolation of *Listeria monocytogenes.*

Direction: Suspend 29,5 g Listeria Selective Agar Base, Oxford in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Listeria Selective Supplement, Oxford (LSO80004) reconstituted with 4 ml of 1:1 mixture of ethanol and sterile distilled water. Mix well before pouring.

Formula

Cycloheximide	200,0 mg / vial
Colistin	10,0 mg / vial
Phosphomycin	5,0 mg / vial
Acriflavine	2,5 mg / vial
Cefotetan	1,0 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

LISTERIA SELECTIVE SUPPLEMENT, PALCAM
LSP80004

FOR 500 ml of PALCAM AGAR

Description: A freeze-dried mixture for the isolation of *Listeria monocytogenes.*

Direction: Suspend 36 g Listeria Selective Agar Base, Palcam in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Listeria Selective Supplement, Palcam (LSP80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Ceftazidime	10,0 mg / vial
Polymyxin B	5,0 mg / vial
Acriflavine	2,5 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

LISTERIA SELECTIVE SUPPLEMENT, UVM I
LU180004

FOR 500 ml of UVM I BROTH

Description: A freeze-dried mixture for the isolation of *Listeria monocytogenes.*

Direction: Suspend 27,5 g Listeria Enrichment Broth Base, UVM – Fraser (LEF20500) in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Listeria Selective Supplement, UVM I (LU180004) reconstituted with 4 ml of 1:1 mixture of ethanol and sterile distilled water. Mix well. Dispense aseptically into sterile final containers.

Formula

Nalidixic acid	10 mg / vial
Acriflavine	6 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

LISTERIA SELECTIVE SUPPLEMENT, UVM II
LU280004

FOR 500 ml of UVM II BROTH

Description: A freeze-dried mixture for the isolation of *Listeria monocytogenes.*

Direction: Suspend 27,5 g Listeria Enrichment Broth Base, UVM - Fraser (LEF20500) in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Listeria Selective Supplement, UVM II (LU280004) reconstituted with 4 ml of 1:1 mixture of ethanol and sterile distilled water. Mix well. Dispense aseptically into sterile final containers.

Formula

Acriflavine	12,5 mg / vial
Nalidixic acid	10 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

RENEWED PRODUCT

LISTERIA SUPPLEMENT
LDS80100

FOR 500 ml of ChromoBio® LISTERIA or ChromoBio® LISTERIA PLUS

Description: A sterile liquid mixture for the supplementation of chromogenic listeria media.

Direction: Suspend 35 g ChromoBio® Listeria or ChromoBio® Listeria Plus in 400 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically 100 ml of Listeria Supplement (LDS80100). Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula:
See the product information sheet of ChromoBio® Listeria or ChromoBio® Listeria Plus

Storage conditions: Store protected from light at room temperature.

M-CP CHROMOGENIC SUPPLEMENT

MCC80004-01 FOR 100 ml of M-CP AGAR
MCC80004-02 FOR 500 ml of M-CP AGAR

Description: A freeze-dried mixture for the enumeration of *Clostridium perfringens.*

Direction for 100 ml of Agar: Suspend 7,1 g ChromoBio® M-CP Base in 100 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of M-CP Chromogenic Supplement (MCC80004-01) and one vial of M-CP Selective Supplement (MPS80004-01) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Direction for 500 ml of Agar: Suspend 35,5 g ChromoBio® M-CP Base in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of M-CP Chromogenic Supplement (MCC80004-02) and one vial of M-CP Selective Supplement (MPS80004-02) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula

Phenolphthalein diphosphate	0,1 g / litre agar

Storage conditions: Store in the dark, at 2-8 °C.

M-CP SELECTIVE SUPPLEMENT

MPS80004-01 FOR 100 ml of M-CP AGAR
MPS80004-02 FOR 500 ml of M-CP AGAR

Description: A freeze-dried mixture for the enumeration of *Clostridium perfringens.*

Direction for 100 ml of Agar: Suspend 7,1 g ChromoBio® M-CP Base in 100 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of M-CP Chromogenic Supplement (MCC80004-01) and one vial of M-CP Selective Supplement (MPS80004-01) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Direction for 500 ml of Agar: Suspend 35,5 g ChromoBio® M-CP Base in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of M-CP Chromogenic Supplement (MCC80004-02) and one vial of M-CP Selective Supplement (MPS80004-02) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula

D-Cycloserine	0,400 g / litre agar
Iron(III) chloride	0,090 g / litre agar
Polymyxin B	0,025 g / litre agar

Storage conditions: Store in the dark, at 2-8 °C.

MALACHITE GREEN SOLUTION, STERILE
MSO80030

FOR 30 litre of MALACHIT GREEN BROTH

Description: A malachite green solution for the preparation of Malachite Green Broth.

Direction: Suspend 4,2 g Malachite Green Broth Base in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically one dose (0,5 ml) of Malachite Green Solution, Sterile (MSO80030). Mix well and dispense aseptically into sterile final containers.

Formula

Malachite green	1 %

Storage conditions: Store in the dark, at 2-8 °C.

MRSA SELECTIVE SUPPLEMENT
MSS80004

FOR 500 ml of MRSA SCREEN AGAR

Description: A freeze-dried mixture for the detection of MRSA.

Direction: Suspend 39 g MRSA Screen Agar Base in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of MRSA Selective Supplement (MSS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Oxacillin	3 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

MRS SUPPLEMENT
MRC80100

FOR 8 litre of MRS AGAR
FOR 10 litre of MRS BROTH

Description: Solution containing TWEEN 80 and sodium acetate for the preparation of MRS media.

Direction: Suspend the appropriate quantity of the different medium bases in one litre of distilled water. Add 10 ml of MRS Supplement (MRC80100). Mix well and heat with frequent agitation until the medium boils well (in case of agars) or heat gently to dissolve the medium completely (in case of broths). Dispense into final containers (in case of broth). Sterilise by autoclaving at 121 °C for 15 minutes.

Warning!
To ensure the homogeneity shake well the supplement before use.

Formula

Sodium acetate	30 %
TWEEN 80	10 %

Storage conditions: Store in the dark, at room temperature.

MUG SUPPLEMENT
MGS80004

Description: A fluorescent agent for the detection of *Escherichia coli.*

Direction: Prepare 500 ml of the necessary medium. Cool to 50 °C and add aseptically the contents of one vial of MUG Supplement (MGS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

MUG	50 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

NOVOBIOCIN SUPPLEMENTS

Novobiocin (5 mg) Supplement DSN80004-05
Novobiocin (10 mg) Supplement DSN80004-10
Novobiocin (20 mg) Supplement DSN80004-20

Description: A freeze-dried mixture for the supplementation of some media.

Direction: Different. See the product information of media (e.g. DIASALM Medium Base, Rappaport-Vassiliadis (MSRV) Medium Base, Tetrathionate Broths, etc.).

Formula

Novobiocin (5 mg) Supplement	5 mg / vial
Novobiocin (10 mg) Supplement	10 mg / vial
Novobiocin (20 mg) Supplement	20 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

OGYE SELECTIVE SUPPLEMENT
OGS80004

FOR 500 ml of OGYE AGAR

Description: A freeze-dried mixture for the isolation of yeasts and moulds.

Direction: Suspend 19 g Oxytetracycline Glucose Yeast Extract Agar in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of OGYE Selective Supplement (OGS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Oxytetracycline	50 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

PERFRINGENS SELECTIVE SUPPLEMENT, OPSP, A + B
POS80004

FOR 500 ml of OPSP AGAR

Description: A freeze-dried mixture for the isolation of *Clostridium perfringens.*
Direction: Suspend 23,5 g Perfringens (OPSP) Agar Base in 500ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial each of Perfringens Selective Supplements, OPSP, A + B (POS80004) both reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Perfringens Selective Supplement, OPSP, A

Polymyxin B	0,80 mg / vial
Oleandomycin	0,25 mg / vial

Perfringens Selective Supplement, OPSP, B

Sulphadiazine	50 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

PERFRINGENS SELECTIVE SUPPLEMENT, SFP
PFS80004

FOR 500 ml of SFP AGAR

Description: A freeze-dried mixture for the isolation of *Clostridium perfringens.*

Direction for SFP Agar: Suspend 23,5 g Perfringens (TSC+SFP) Agar Base in 475 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 25 ml of Sterile Egg Yolk Emulsion (EYE80025) and the contents of one vial of Perfringens Selective Supplement, SFP (PFS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Direction for Egg Yolk Free SFP Agar: Suspend 23,5 g Perfringens (TSC+SFP) Agar Base in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Perfringens Selective Supplement, SFP (PFS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Kanamycin	6,0 mg / vial
Polymyxin B	2,5 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

PERFRINGENS SELECTIVE SUPPLEMENT, TSC
PSS80004

FOR 500 ml of TSC AGAR

Description: A freeze-dried mixture for the isolation of *Clostridium perfringens.*

Direction for TSC Agar: Suspend 23,5 g Perfringens (TSC+SFP) Agar Base in 475 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 25 ml of Sterile Egg Yolk Emulsion (EYE80025) and the contents of one vial of Perfringens Selective Supplement, TSC (PSS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.
Direction for Egg Yolk Free TSC Agar: Suspend 23,5 g Perfringens (TSC+SFP) Agar Base in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Perfringens Selective Supplement, TSC (PSS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

D-Cycloserine	200 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

PHENYLETHANOL SUPPLEMENT
PEE80030

FOR 500 g of PHENYLETHYL ALCOHOL (PEA) AGAR

Description: Phenylethanol for the preparation of Phenylethyl Alcohol (PEA) Agar.

Direction: Suspend 45 g Phenylethyl Alcohol (PEA) Agar Base in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Add 2,5 ml of Phenylethanol Supplement (PEE80030). Mix well and sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood. Mix well again before pouring.

Formula

Phenylethanol	30 ml

Storage conditions: Store in the dark, at room temperature.

POTASSIUM TELLURITE SOLUTION, STERILE
PTS80030

FOR 30 litre of VOGEL-JOHNSON AGAR
FOR 10 litre of GIOLITTI-CANTONI BROTH

Description: A potassium tellurite solution for the preparation of the above media.

Direction: Suspend the appropriate quantity of the different medium bases in 500 ml of distilled water and heat with frequent agitation until the medium boils well (in case of agars) or heat gently to dissolve the medium completely (in case of broths). Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically one dose (0,5 ml) (in case of agar) or 3 dose (1,5 ml) (in case of broth) of Potassium Tellurite Solution, Sterile (PTS80030). Mix well before pouring (in case of agar) or dispense aseptically into sterile final containers (in case of broth).

Formula

Potassium tellurite	18 %

Storage conditions: Store in the dark, at 2-8 °C.

PSEUDOMONAS SELECTIVE SUPPLEMENT, CFC

RENEWED PRODUCT

CFC80004

FOR 500 ml of CETRIMIDE (CFC) AGAR

Description: A freeze-dried mixture for the isolation of *Pseudomonas aeruginosa*.

Direction: Suspend 25 g Cetrimide (CN) Agar Base No.2 in 500 ml of distilled water. Add 5 ml of Glycerol Supplement (GLC80100) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the content of one vial of Pseudomonas Selective Supplement, CFC (CFC80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Cephaloridine	100 mg / vial
Fucidine	5 mg / vial
Cetrimide	5 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

PSEUDOMONAS SELECTIVE SUPPLEMENT, CN

RENEWED PRODUCT

PCN80004

FOR 500 ml of CETRIMIDE (CN) AGAR

Description: A freeze-dried mixture for the isolation of *Pseudomonas aeruginosa*.

Direction: Suspend 25 g Cetrimide (CN) Agar Base No.2 500 ml of distilled water. Add 5 ml of Glycerol Supplement (GLC80100) and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the content of one vial of Pseudomonas Selective Supplement, CN (PCN80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Cetrimide	100 mg / vial
Nalidixic acid	7,5 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

RAPPAPORT-VASSILIADIS MAGNESIUM CHLORIDE SOLUTION

RMG81000

FOR 500 g of RAPPAPORT-VASSILIADIS BROTH BASE, PH EUR - USP

Description: A magnesium chloride solution for the preparation of Rappaport-Vassiliadis Broth.

Direction: Fill up 27 ml of Rappaport-Vassiliadis Magnesium Chloride Solution (RMG81000) to one litre with distilled water. Suspend 13,5 g of Rappaport-Vassiliadis Broth Base, PH EUR - USP and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 115 °C for 15 minutes.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula

Magnesium chloride	1074 g/l

Storage conditions: Store at room temperature.

ROSOLIC ACID SUPPLEMENT

NEW PRODUCT

RAS80005

FOR 500 ml of M-FC AGAR AND BROTH

Description: A freeze-dried mixture for detection of faecal coliforms.

Direction for agar: Suspend 26 g agar base in 500 ml of distilled water and heat with frequent agitation until the medium becomes transparent (about 90 °C). Add the content of one vial of Rosolic Acid Supplement (RAS80005) reconstituted with 5 ml of sterile distilled water. Continue heating with frequent agitation until the medium boils well. Mix well before pouring.
Direction for broth: Suspend 18,5 g broth base in 500 ml of distilled water. Add the content of one vial of Rosolic Acid Supplement (RAS80005) reconstituted with 5 ml of sterile distilled water. Mix well and heat with frequent agitation until the medium boils well.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula

Rosolic acid	50 mg / vial

Storage conditions: Store in the dark at room temperature.

RPMI MOPS SOLUTION, STERILE

RGS80100

FOR 500 ml of RPMI MOPS AGAR

Description: A sterile RPMI MOPS solution for the preparation of RPMI MOPS Agar.

Direction: Suspend 17,5 g of RPMI MOPS Agar Base in 400 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C. Heat gently 100 ml of RPMI MOPS Solution, Sterile (RGS80100) to 50 °C and add aseptically to the agar base. Mix well before pouring.

Formula

MOPS	34,5 g/l
RPMI 1640	10,5 g/l

Storage conditions: Store in the dark, at 2-8 °C.

SALMONELLA SELECTIVE SUPPLEMENT

NEW PRODUCT

SSS80004

FOR 500 ml of ChromoBio® SALMONELLA

Description: A freeze-dried mixture for the isolation of *Salmonella* spp.

Direction: Suspend 21,5 g ChromoBio® Salmonella base in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Salmonella Selective Supplement (SSS80004) reconstituted with 4 ml sterile distilled water. Mix well before pouring

Formula

Cefsulodin	6,0 mg / vial
Novobiocin	2,5 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

NEW PRODUCT

SALMONELLA PLUS SELECTIVE SUPPLEMENT
SSP80004

FOR 500 ml of ChromoBio® SALMONELLA PLUS

Description: A freeze-dried mixture for the isolation of *Salmonella* spp.

Direction: Suspend 22,5 g ChromoBio® Salmonella Plus Base in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Salmonella Plus Selective Supplement (SSP80004) reconstituted with 4 ml sterile distilled water. Mix well before pouring

Formula

Cefsulodin	6,0 mg / vial
Novobiocin	2,5 mg / vial
Specific inhibitor	1,0 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

SELENITE SUPPLEMENT
SES80110

FOR 500 g of SELENITE BROTH BASE

Description: Sodium selenite powder for the preparation of selenite broths.

Direction: Dissolve 4 grams of Selenite Supplement (SES80110) in one litre of distilled water and then add the appropriate quantity of the different broth bases. Heat gently to dissolve the medium completely. Mix well and dispense into final containers. In case of not using the medium on the day of preparation, sterilise at 100 °C for 10 minutes. Cool quickly! A small amount of coloured precipitate is not detrimental.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula

Sodium selenite	110 g

Storage conditions: Store at room temperature.

SHIGELLA SELECTIVE SUPPLEMENT
SBS80004

FOR 500 ml of SHIGELLA SELECTIVE AGAR

Description: A freeze-dried mixture for the selective enrichment of *Shigella* spp.

Direction: Suspend 15 g Shigella Selective Broth Base in 500 ml of dis-tilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically one vial of Shigella Selective Supplement (SBS80004) reconstituted with 4 ml of sterile distilled water. Mix well and dispense aseptically into sterile containers.

Formula

Cefsulodin	20,0 mg / vial
Novobiocin	0,3 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

SODIUM ACETATE SOLUTION
SAS80100

FOR 10 litre of TYROBUTYRICUM BROTH
FOR 3 litre of ROGOSA AGAR

Description: Solution containing sodium acetate for the preparation of some media.

Direction: Suspend the appropriate quantity of the different medium bases in one litre of distilled water. Add 10 ml (in case broth) or 33 ml (in case of agar) of Sodium Acetate Supplement (SAS80100). Mix well and heat gently to dissolve the medium completely (in case of broth) or heat with frequent agitation until the medium boils well (in case of agar). Dispense into final containers (in case of broth). Sterilise by autoclaving at 121 °C for 15 minutes.

Formula

Sodium acetate	50 %

Storage conditions: Store in the dark, at room temperature.

SODIUM METABISULPHITE SOLUTION, STERILE
SMS80030

FOR 30 litre of MEDIA

Description: A sodium metabisulphite solution for the differentiation of *Clostridium* spp.

Direction: Suspend the appropriate quantity of the different medium bases in 500 ml of distilled water and heat with frequent agitation until the medium boils well (in case of agars) or heat gently to dissolve the medium completely (in case of broths). Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically one dose (0,5 ml) of Sodium Metabisulphite Solution, Sterile (SMS80030) and one dose (0,5 ml) of Ferric Ammonium Citrate Solution, Sterile (FAC80030). Mix well before dispensing.

Formula

Sodium metabisulphite	60 %

Storage conditions: Store in the dark, at 2-8 °C.

STAPH/STREP SELECTIVE SUPPLEMENT
SHS80004

FOR 500 ml of COLUMBIA CNA AGAR

Description: A freeze-dried mixture for the isolation of staphylococci and streptococci.

Direction for Columbia CNA Agar: Suspend 42 g Columbia Blood Agar Base in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of sterile defibrinated blood and the contents of one vial of Staph/Strep Selective Supplement (SHS80004) reconstituted with 4 ml of 95% ethanol. Mix well before pouring.

Formula

Nalidixic acid	7,5 mg / vial
Colistin	5,0 mg / vial

Storage conditions: Store in the dark, at 2-8 °C

STERILE EGG YOLK EMULSION

25 ml - EYE80025 FOR 500 ml of AGAR
50 ml - EYE80050 FOR 1000 ml of AGAR
100 ml - EYE80100 FOR 2000 ml of AGAR

Description: A sterile, stabilised emulsion of egg yolk for the identification of *Clostridium, Bacillus* and *Staphylococcus* spp. by their lipase activity.

Direction: Suspend the appropriate quantity of the different agar bases in 475 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 25 ml of Sterile Egg Yolk Emulsion (EYE80025). Mix well before pouring.

Formula

Egg yolk	50%

Storage conditions: Store in the dark, at 2-8 °C.

STERILE EGG YOLK TELLURITE EMULSION

25 ml - EYT80025 FOR 500 ml of BAIRD-PARKER AGAR
50 ml - EYT80050 FOR 1000 ml of BAIRD-PARKER AGAR
100 ml - EYT80100 FOR 2000 ml of BAIRD-PARKER AGAR

Description: A sterile, stabilised emulsion of egg yolk containing potassium tellurite for the isolation and presumptive identification of coagulase positive staphylococci.

Direction: Suspend 60 g Baird-Parker Agar Base, PH EUR in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of Sterile Egg Yolk Tellurite Emulsion (EYT80050). Mix well before pouring.

Formula

Egg yolk	50%
Potassium tellurite	50 mg / 25 ml

Storage conditions: Store in the dark, at 2-8 °C.

STERILE EGG YOLK POLYMYXIN (PEMBA) EMULSION

25 ml - EYP80025-01 for 500 ml of BACILLUS CEREUS (PEMBA) AGAR
50 ml - EYP80050-01 for 1000 ml of BACILLUS CEREUS (PEMBA) AGAR

Description: A sterile, stabilised emulsion of egg yolk containing polymyxin B for the identification of *Bacillus* spp. by their lipase activity.

Direction: Suspend 40 g Bacillus Cereus (PEMBA) Agar Base in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 50 ml of Sterile Egg Yolk Polymyxin (PEMBA) Emulsion (EYP80050-01). Mix well before pouring.

Formula

Egg yolk	50%
Polymyxin	8 mg / 25 ml

Storage conditions: Store in the dark, at 2-8 °C.

STERILE EGG YOLK POLYMYXIN (PREP) EMULSION

50 ml - EYP80050-02 for 500 ml of BACILLUS CEREUS (PREP) AGAR
100 ml - EYP80100-02 for 1000 ml of BACILLUS CEREUS (PREP) AGAR

Description: A sterile, stabilised emulsion of egg yolk containing polymyxin B for the identification of *Bacillus* spp. by their lipase activity.

Direction: Suspend 46 g Bacillus Cereus (PREP) Agar Base in 900 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically 100 ml of Sterile Egg Yolk Polymyxin (PREP) Emulsion (EYP80100-02). Mix well before pouring.

Formula

Egg yolk	50%
Polymyxin	8 mg / 50 ml

Storage conditions: Store in the dark, at 2-8 °C.

SULPHAMANDELATE SELECTIVE SUPPLEMENT

SUS80004

FOR 500 ml of BRILLIANT GREEN AGAR, MODIFIED

Description: A freeze-dried mixture for the isolation of salmonellae.

Direction: Suspend 26,5 g Brilliant Green Agar Base, Modified in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of one vial of Sulphamandelate Selective Supplement (SUS80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Formula

Sodium sulphacetamide	500 mg / vial
Sodium mandelate	125 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

TETRATHIONATE IODINE-IODIDE SELECTIVE SUPPLEMENT
TTS80010

FOR 500 ml of TETRATHIONATE BROTHS

Description: A dehydrated mixture for the preparation of tetrathionate broths.

Direction: Suspend the appropriate quantity of the different tetrathionate broth bases in 500 ml of distilled water and heat gently to dissolve the medium completely. Cool to 50 °C and add aseptically the contents of one vial of Tetrathionate Iodine-Iodide Selective Supplement (TTS80010) reconstituted with 10 ml of sterile distilled water. Mix well and dispense aseptically into sterile test tubes.

Warning!
The medium is heat sensitive.
Do not heat after the addition of the supplement.
The complete medium should be used on the day of preparation.

Formula

Iodine	3,0 g / vial
Potassium iodide	2,5 g / vial

Storage conditions: Store in dark at 2-8 °C.

TODD-HEWITT SELECTIVE SUPPLEMENT
THS80004

FOR 500 ml of SELECTIVE TODD-HEWITT BROTH

Description: A freeze-dried mixture for the isolation of *Streptococcus spp.*

Direction: Suspend 18,5 g Todd-Hewitt Broth in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Todd-Hewitt Selective Supplement (THS80004) reconstituted with 4 ml of sterile distilled water. Mix well and dispense aseptically into sterile final containers.

Formula

Nalidixic acid	0,0075 mg / vial
Colistin	0,0050 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

TRIBUTYRIN SUPPLEMENT
TRS80250

FOR 500 g TRIBUTYRIN AGAR BASE

Description: Tributyrin for the preparation of Tributyrin Agar.

Direction: Suspend 20 g Tributyrin Agar Base in one litre of distilled water. Add 10 ml of Tributyrin Supplement (TRS80250) and mix uniformly. Heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C with frequent agitation and pour plates immediately to solidify quickly.

Warning!
The ready medium must be uniformly turbid gel!

Formula

Tributyrin	250 ml

Storage conditions: Store at room temperature.

TRICHOMONAS SELECTIVE SUPPLEMENT
TSS80004

for 500 ml of TRICHOMONAS MEDIA

Description: A freeze-dried mixture for the cultivation of *Trichomonas vaginalis.*

Direction for Trichomonas Medium: Suspend 18,5 g Trichomonas Medium Base in 455 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Trichomonas Selective Supplement (TSS80004) reconstituted with 4 ml of sterile distilled water and 40 ml of sterile inactivated (i.e. serum held at 56°C for 30 minutes) and pH adjusted (6.4) horse serum. Dispense aseptically into sterile test tubes.

Direction for Trichomonas (CPLM) Medium, Modified: Suspend 17,5 g Trichomonas (CPLM) Medium Base, Modified in 425 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Trichomonas Selective Supplement (TSS80004) reconstituted with 4 ml of sterile distilled water and 70 ml of sterile inactivated (i.e. serum held at 56 °C for 30 minutes) and pH adjusted (6.0) horse serum. Dispense aseptically into sterile test tubes.

Formula

Streptomycin	500 mg / vial
Penicillin	80 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

TRITON X-100 SUPPLEMENT
TXS80100

FOR 100 litre of A-1 BROTH

Description: Triton X-100 for the preparation of A-1 Broth.

Direction: Suspend 31 g A-1 Broth Base in one litre of distilled water. Add 1 ml of TRITON X-100 Supplement (TXS80100). Mix well and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes.

Formula

Triton X-100 bacteriological grade	100 ml

Storage conditions: Store at room temperature.

TTC SOLUTION, STERILE
TTC80030

FOR 30 litre of SOME MEDIA

Description: A TTC solution for the preparation of some media.

Direction: Suspend the appropriate quantity of the different medium bases in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes if it is necessary. Cool to 50 °C and add aseptically one dose (0,5 ml) of TTC Solution, Sterile (TTC80030). Mix well before pouring.

Formula

2,3,5-triphenyltetrazolium chloride	5 %

Storage conditions: Store in the dark, at 2-8 °C.

TWEEN 80 SUPPLEMENT

TWS80100 - 100 ml
TWS80500 - 500 ml

Description: TWEEN 80 (Polysorbate 80) for the preparation of some media.

Direction: Different. See the product information of relevant media.

Formula

TWEEN 80, bacteriological grade	100 ml
TWEEN 80, bacteriological grade	500 ml

Storage conditions: Store at room temperature.

NEW PRODUCT

VANCOMYCIN (3 mg) SUPPLEMENT

VSS80004-03

FOR 500 ml of AGAR

Description: A freeze-dried mixture for the isolation of legionellae.

Direction: Suspend 25 g Brain Heart Infusion Agar in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of one vial of Vancomycin (3 mg) Supplement (VSS80004-03) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Vancomycin	3 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

TYROBUTYRICUM SODIUM LACTATE SOLUTION

SLT80140

FOR 500 g of TYROBUTYRICUM BROTH BASE

Description: A sodium lactate solution for the preparation of Tyrobutyricum Broth.

Direction: Fill up 10 ml of Tyrobutyricum Sodium Lactate Solution (SLT80140) to one litre with distilled water. Suspend 31 g of Tyrobutyricum Broth Base and heat gently to dissolve the medium completely. Dispense into final containers and sterilise by autoclaving at 121 °C for 15 minutes.

Formula

Sodium lactate	50%

Storage conditions: Store at room temperature.

YERSINIA (CIN) SELECTIVE SUPPLEMENT

CIN80004

FOR 500 ml of YERSINIA AGAR
FOR 500 ml of YERSINIA BROTH

Description: A freeze-dried mixture for the isolation of *Yersinia enterocolitica*.

Direction: Suspend 30 g Yersinia Agar Base or 16,5 g Yersinia Broth Base in 500 ml of distilled water and heat with frequent agitation until the medium boils well (in case of agar) or heat gently to dissolve the medium completely (in case of broth). Sterilise by autoclaving at 121°C for 15 minutes. Cool to 50°C and add aseptically the contents of one vial of Yersinia (CIN) Selective Supplement (CIN80004) reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Formula

Cefsulodin	7,50 mg / vial
Irgasan	2,00 mg / vial
Novobiocin	1,25 mg / vial

Storage conditions: Store in the dark, at 2-8 °C.

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