

MICROBIOLOGY

MICROBIOLOGICAL CULTURE MEDIA & SUPPLEMENTS

BIOSOLUTE®
A BRAND OF TH.GEYER

TABLE OF CONTENTS

INTRODUCTION	3
MICROBIOLOGICAL CULTURE MEDIA	5–49
SUPPLEMENTS	51–57
MEDIA COMPONENTS	59–61
GENERAL INSTRUCTIONS	62–63
APPLICATION AREAS	64–65



BIOSOLUTE® FOR MICROBIOLOGY

BENEFITS AT A GLANCE

Selected raw materials: Only raw materials that meet the highest standards are used for the production of BIOSOLUTE® prepared media. This also ensures, for example, a particularly reliable batch consistency.

Production in the cleanroom: BIOSOLUTE® ready-to-use media are produced automatically in state-of-the-art cleanroom conditions.

Strict quality control: The quality control follows ISO 11133 and/or Ph. Eur., depending on the medium. Performance tests for solid culture media are carried out in an ISO 17025 certified laboratory (ENAC accreditation).

Certified quality: Every step of the culture media production is carried out in the ISO 9001 and ISO 13485 certified production.



OUR PORTFOLIO

Ready-to-use culture media: Contact plates (55 mm), membrane filtration plates (55 mm), prepared plates (90 mm), solid and liquid culture media and solutions in bags, bottles and tubes.

Dry culture media: Dehydrated microbiological media and components (powder) in the pack sizes 500 g, 2 kg, 5 kg and 10 kg as well as supplements.

YOUR APPLICATIONS

Hygiene control, isolation, counting and detection of bacteria, yeasts, fungi.

Individual solutions for you
You are missing specific culture media? Please get in touch with your contact sales person directly or send an e-mail with questions and comments to sales@thgeyer.com




MICRO-
BIOLOGICAL
CULTURE
MEDIA
LABSOLUTE
500 ml
BORO 3.3
RETRACE CODE



BAIRD PARKER AGAR (BASE)

Solid selective culture medium for the screening of staphylococci from a variety of samples according to Pharmacopeial Harmonised Methods, FIL-IDF 60:2001, EP/USP, ISO 5944, ISO 6888, ISO 22718. standards.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Casein Peptone	10.0
Sodium pyruvate	10.0
Glycine	12.0
Meat extract	5.0
Lithium chloride	5.0
Yeast extract	1.0
Agar	17.0

Directions

Suspend 60 g of powder in 950 ml of distilled water.

Supplement

Egg Yolk Tellurite Emulsion 20 % (Art. no. 9557)

Final pH (25 °C) 7.2 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9869.0500
2 kg	Plastic container	9869.2000
5 kg	Plastic container	9869.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
10x 90 ml	Glass bottles 125 ml	9887.0090
10x 180 ml	Glass bottles 250 ml	9887.0180

BAIRD PARKER AGAR

Solid selective culture medium for the screening of staphylococci from a variety of samples according to Pharmacopeial Harmonised Methods, FIL-IDF 60:2001, EP/USP, ISO 5944, ISO 6888, ISO 22718. standards.

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9746.0020

BILE ESCULIN AZIDE AGAR

Solid medium for the confirmation and enumeration of enterococci in water by the membrane filtration method according to ISO 7899-2.

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Tryptone	17.00
Peptone	3.00
Yeast extract	5.00
Bile	10.00
Sodium chloride	5.00
Esculin	1.00
Ammonium ferric citrate	0.50
Sodium azide	0.15
Agar	15.00

Final pH (25 °C) 7.1 ±0.1

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9423.0020
10x 100 ml	Glass bottles 125 ml	9425.0100

BLOOD AGAR (BASE)

Solid nutrient rich medium suitable for the isolation of pathogenic microorganisms from clinical specimens.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Meat extract	10.0
Tryptone	10.0
Sodium chloride	5.0
Agar	15.0

Directions

Suspend 40 g of powder in 950 ml of distilled water.



Final pH (25 °C) 7.3 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9850.0500



BRAIN HEART INFUSION BROTH (BHI BROTH)

Nutrient rich medium suitable for the isolation of pathogenic microorganisms from clinical specimens, DIN 10163, ISO 5944

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Brain extract	12.50
Heart extract	5.00
Peptone	10.00
D(+)-Glucose (Dextrose)	2.00
Sodium chloride	5.00
Disodium phosphate	2.50

Directions

Dissolve 37 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.4 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9264.0500

BRILLIANT GREEN AGAR (BGA)

Medium for Salmonella isolation according to ISO 11133.



READY-TO-USE CULTURE MEDIA

Formulation (g/l)	
Meat Peptone	5.0000
Casein Peptone	5.0000
Sodium chloride	5.0000
Yeast extract	3.0000
Lactose	10.0000
Sucrose	10.0000
Phenol Red	0.0800
Brilliant Green	0.0125
Agar	15.0000

Final pH (25 °C) 6.9 ±0.2

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9489.0020

BRILLIANT GREEN BILE BROTH



Liquid medium used for the detection of coliforms in water according to APHA and ISO 4831, ISO 9308-1, ISO 11133.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Bile	20.000	Suspend 40 g of powder in 1 l of distilled water.
Lactose	10.000	
Peptone	10.000	
Brilliant green	0.013	

Final pH (25 °C) 7.2 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9835.0500

CASEIN PEPTONE LECITHIN POLYSORBATE BROTH (BASE)



Liquid medium used to dilute and neutralize pharmaceutical, cosmetic, raw material or end product samples for the purpose of microbial enumeration.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Casein peptone	20.0	Suspend 25 g of powder in 960 ml of distilled water.
Soy lecithin	5.0	

Final pH (25 °C) 7.3 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9717.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20x 9 ml	Tubes 16 x 113 mm	9759.0009
10x 90 ml	Glass bottles 125 ml	9759.0090
10x 99 ml	Glass bottles 125 ml	9759.0099
10X 190 ml	Glass bottles 250 ml	9759.0190



CETRIMIDE AGAR PH. EUR.

Solid culture medium for the selective isolation of *Pseudomonas aeruginosa* according to Pharmacopeial Harmonised Methods and ISO 22717.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Gelatin peptone	20.00
Magnesium chloride	1.40
Potassium sulphate	10.00
Cetyltrimethylammoniumbromide	0.30
Agar	13.60

Directions

Suspend 45.3 g of powder in 1 l of distilled water.

Supplement

Glycerol (Art. no. 8110)

Final pH (25 °C) 7.2 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9783.0500
2 kg	Plastic container	9783.2000
5 kg	Plastic container	9783.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9248.0020
30 Plates	Contact plates 65 mm (doppelt wrapped)	9246.0030
30 Plates	Membrane filtration platesn 55 mm.	9254.0030
10x 100 ml	Glass bottles 125 ml	9682.0100
10x 200 ml	Glass bottles 250 ml	9682.0200

CHROMOGENIC COLIFORM AGAR (CCA)

Selective and differential medium for the detection and enumeration of coliforms and *E. coli* in water samples by membrane filtration. ISO 7704, ISO 9308-1.



READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Enzymatic digest of casein	1.00
Yeast extract	2.00
Sodium chloride	5.00
Di-sodium hydrogen phosphate	2.70
Sodium dihydrogen phosphatedihydrate	2.20
Tryptophan	1.00
Sodium pyruvate	1.00
Tergitol®7	0.15
Sorbitol	1.00
6-Chloro-3-indoxylß-D-galactopyranoside	0.20
5-Bromo-4-chlor-3-indoxyl-ß-D-glucuronic acid	0.10
IPTG	0.10
Agar	13.00

Final pH (25 °C) 6.8 ±0.2

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9950.0020
30 Plates	Membrane filtration platesn 55 mm	9956.0030

COLUMBIA AGAR PH. EUR.



Highly nutritious general purpose medium used for the isolation and cultivation of fastidious and nonfastidious microorganisms from clinical and non-clinical materials according to Pharmacopeial Harmonised Methods.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Casein peptone	10.0
Meat peptone	5.0
Heart peptone	3.0
Yeast extract	5.0
Maize starch	1.0
Sodium chloride	5.0
Agar	15.0

Directions

Suspend 44 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.3 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9770.0500
2 kg	Plastic container	9770.2000
5 kg	Plastic container	9770.5000

COLUMBIA AGAR WITH SHEEP BLOOD



Nutrient rich medium suitable for the isolation of pathogenic microorganisms from clinical specimens. ISO 10272-1, ISO 10272-2.

READY-TO-USE CULTURE MEDIA

Formulation (g/l)	
Casein peptone	10.00
Meat peptic digest	5.00
Heart Pancreatic digest	3.00
Yeast Extract	5.00
Sodium chloride	5.00
Starch	1.00
Agar	15.00
Defibrinated sheep blood	50.0 ml

Final pH (25 °C) 7.2 ±0.2

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9772.0020



DG 18 AGAR (DICHLORAN GLYCEROL CHLORAMPHENICOL AGAR) (BASE)

Solid differential and low water activity medium used for the determination of xerophilic fungi in low moisture food and indoor according to ISO standard 16000-17 and ISO 21527-2

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Peptone	5.000
D(+)-Glucose (Dextrose)	10.000
Potassium dihydrogenphosphate	1.000
Magnesium sulphate heptahydrate	0.500
Dichloran	0.002
Chloramphenicol	0.100
Agar	15.000

Directions

Suspend 31.7 g of powder in 1 l of distilled water.

Supplement

Glycerol (Art. no. 8110)

Final pH (25 °C) 5.6 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9685.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9526.0020
10x 100 ml	Glass bottles 125 ml	9793.0100



DRBC AGAR (DICHLORAN ROSE BENGAL CHLORAMPHENICOL AGAR)

Selective medium for the enumeration of mold and yeast in foodstuff according to ISO 21527-1.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Mycological peptone	5.000
D(+)-Glucose (Dextrose)	10.000
Potassium dihydrogenphosphate	1.000
Magnesium sulphate	0.500
Dichloran	0.002
Rose bengal	0.025
Chloramphenicol	0.100
Agar	15.000

Directions

Suspend 31.6 g of powder in 1 l of distilled water.

Final pH (25 °C) 5.6 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9677.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9627.0020

ENTEROBACTERIACEAE ENRICHMENT BROTH MOSSEL (EE BROTH)



Liquid culture medium used for the enrichment of enterobacteria according to Pharmacopeial Harmonised Methods and ISO 21528-1.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Gelatin peptone	10.000
D(+)-Glucose (Dextrose)	5.000
Ox bile	20.000
Disodium phosphate dihydrate	8.000
Potassium dihydrogenphosphate	2.000
Brilliant green	0.0135

Directions

Suspend 45 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.2 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9571.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20x 9 ml	Tubes	9440.0009
10x 90 ml	Flaschen	9440.0090
10x 100 ml	Flaschen	9440.0100

FLUID A

Rinsing and diluting fluid for membrane filtration methods. EP/USP

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Peptic digest of animal tissue	1.00

Final pH (25 °C) 7.1 ±0.2

Quantity	Packaging Material	Art. no.
20x 9 ml	Tubes 16 x 113 mm	9030.0009
10x 100 ml	Glass bottles 125 ml	9030.0100
10x 300 ml	Glass bottles 500 ml	9030.0300
10x 450 ml	Glass bottles 500 ml	9030.0450
6x 600 ml	Glass bottles 1 l	9030.0600
6x 900 ml	Glass bottles 1 l	9030.0900

FLUID D

Rinsing and diluting fluid for membrane filtration methods. EP/USP

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Meat peptone	1.0
Polysorbate 80	1.0

Final pH (25 °C) 7.1 ±0.2

Quantity	Packaging Material	Art. no.
10x 100 ml	Glass bottles 125 ml	9032.0100
10x 300 ml	Glass bottles 500 ml	9032.0300
10x 400 ml	Glass bottles 500 ml	9032.0400
6x 600 ml	Glass bottles 1 l	9032.0600
6x 850 ml	Glass bottles 1 l	9032.0850

FLUID K

Diluent and non-selective pre-enrichment medium for homogenization of samples for microbiological examination. EP/USP

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Meat Peptone	5.00
Beef extract	3.00
Polysorbate 80	10.00

Final pH (25 °C) 6.9 ±0.2

Quantity	Packaging Material	Art. no.
10x 300 ml	Glass bottles 500 ml	9036.0300
10x 450 ml	Glass bottles 500 ml	9036.0450

FRASER BROTH



Liquid culture medium for the enrichment and detection of *Listeria spp.*

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Soy peptone	5.00
Tryptone	5.00
Meat extract	5.00
Yeast extract	5.00
Sodium chloride	20.00
Esculin	1.00
Disodium phosphate	9.60
Potassium dihydrogen phosphate	1.35
Lithium chloride	3.00

Directions

Dissolve 49.25 g of powder in 1 l of distilled water.

Supplement

Fraser Listeria Selective Supplement (Art. no. 9442)
Half Fraser Listeria Selective Supplement (Art. no. 9250)

Final pH (25 °C) 7.2 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9439.0500
2 kg	Plastic bottle	9439.2000
5 kg	Plastic bottle	9439.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20x 10 ml	Tubes 16 x 113 mm	9650.0010
10x 225 ml	Glass bottles 250 ml	9650.0225

HALF FRASER BROTH ISO

Broth for the selctive enrichment of *Listeria spp.*, ISO 11290.

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Meat peptone	5.0000
Casein peptone	5.0000
Yeast extract	5.0000
Meat extract	5.0000
Sodium chloride	20.0000
Disodium phosphate	12.0000
Monopotassium phosphate	1.3500
Esculin	1.0000
Lithium chloride	3.0000
Ammonium ironIII citrate	0.5000
Nalidixic ac	0.0100
Acriflavine	0.0125



Final pH (25 °C) 7.2 ±0.2

Quantity	Packaging Material	Art. no.
20x 9 ml	Tubes 16 x 113 mm	9654.0009
10x 225 ml	Glass bottles 250 ml	9654.0225
5x 2 l	Bags	9653.2000
3x 3 l	Bags	9653.3000
2x 5 l	Bags	9653.5000



KANAMYCIN ESCULIN AZIDE AGAR

Solid medium for confirmative detection and isolation of Lancefield's group D streptococci in food samples according to Mossel et al.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Tryptone	20.00
Yeast extract	5.00
Sodium chloride	5.00
Disodium citrate	1.00
Esculin	1.00
Ferric-ammonium citrate	0.50
Sodium azide	0.15
Kanamycin sulfate	0.02
Agar	15.00

Directions

Suspend 48 g of powder in 1 l of distilled water.

GHS

- H302-H412
- P261-P273-P280-P301+P330+P331-P308+P311-P501

Warning

Final pH (25 °C) 7.0 ± 0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8536.0500
2 kg	Plastic container	8536.2000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
10x 200 ml	Glass bottle 250 ml	9842.0200

LACTOSE BROTH



Medium for pre-enrichment and detection of enterobacteria and coliforms in milk and water according to ISO 9308-2, ISO 21150:2006, APHA and USP.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Gelatin peptone	5.0
Meat extract	3.0
Lactose	5.0

Directions

Suspend 13 g of powder in 1 l of distilled water.

Final pH (25 °C) 6.9 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8620.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
10x 90 ml	Glass bottles 125 ml	9487.0090
10x 100 ml	Glass bottles 125 ml	9487.0100

LACTOSE BROTH DEV



Liquid medium for the enrichment and detection of coliforms in water according to German standard methods.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Meat peptone	10.00	Dissolve 28 g of powder in 1 l of distilled water.
Meat extract	3.00	
Sodium chloride	5.00	
Lactose	10.00	
Bromocresol purple	0.02	

Final pH (25 °C) 7.2 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8869.0500

LAURYL SULPHATE BROTH



Liquid medium used for the detection and enumeration of coliform bacteria according to IDF-FIL 73B and ISO standards.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Tryptose	20.00	Dissolve 35.6 g of powder in 1 l of distilled water.
Sodium lauryl sulphate	0.10	
Lactose	5.00	
Dipotassium phosphate	2.75	
Potassium dihydrogen phosphate	2.75	
Sodium chloride	5.00	

Final pH (25 °C) 6.8 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8848.0500



LB AGAR ACC. TO LENNOX

Standard agar based on LB broth acc. to Lennox, with low salt content (5 g/l NaCl). Ideal for general purposes and especially for growing and maintaining recombinant *Escherichia coli* strains.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Tryptone	10.0	Suspend 35 g of powder in 1 l of distilled water.
Yeast extract	5.0	
Sodium chloride	5.0	
Agar	15.0	

Final pH (25 °C) 7.0 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8876.0500
2 kg	Plastic container	8876.2000
5 kg	Plastic container	8876.5000



LB AGAR ACC. TO MILLER

Standard agar based on LB broth acc. to Miller. Ideal for general purposes and especially for growing and maintaining *Escherichia coli* strains used in molecular microbiology procedures.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Tryptone	10.0	Suspend 40 g of powder in 1 l of distilled water.
Yeast extract	5.0	
Sodium chloride	10.0	
Agar	15.0	

Final pH (25 °C) 7.2 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8843.0500
2 kg	Plastic container	8843.2000
5 kg	Plastic container	8843.5000

LB BROTH ACC. TO LENNOX



Standard medium with low salt content (5 g/l NaCl), ideal for general purposes and the cultivation of recombinant *Escherichia coli* strains.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Tryptone	10.0	Suspend 20 g of powder in 1 l of distilled water.
Yeast extract	5.0	
Sodium chloride	5.0	

Final pH (25 °C) 7.0 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8891.0500
2 kg	Plastic container	8891.2000
5 kg	Plastic container	8891.5000

LB BROTH ACC. TO MILLER



Standard medium for general purposes and especially for the cultivation of *Escherichia coli*, high-salt content (10 g/l NaCl).

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Tryptone	10.0	Suspend 25 g of powder in 1 l of distilled water.
Yeast extract	5.0	
Sodium chloride	10.0	

Final pH (25 °C) 7.2 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8822.0500
2 kg	Plastic container	8822.2000
5 kg	Plastic container	8822.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
10x 100 ml	Glass bottles 125 ml	9360.0100



LEGIONELLA BCYE AGAR (BASIS)

Solid medium used for the detection, isolation and enumeration of Legionella from water according to ISO standard 11731:1998 and 11731-2:2004.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Activated charcoal	2.0
Yeast extract	10.0
Agar	15.0

Final pH (25 °C) 6.8 ±0.2

Directions

Suspend 13.5 g of powder in 500 ml of distilled water.

Supplement

Legionella BCYE Growth Supplement (Art. no. 8861)
Legionella GVPC Selective Supplement (Art. no. 8820)

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8811.0500
2 kg	Plastic container	8811.2000
5 kg	Plastic container	8811.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9664.0020



LISTERIA SELECTIVE AGAR BASE ACCORDING TO OTTAVIANI AND AGOSTI (ALOA) ISO

Medium for the isolation of *Listeria spp.* and the presumptive identification of *L. monocytogenes acc.* to ISO 11290-1 and 11290-2 standard.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Meat peptone	18.00
Tryptone	6.00
Yeast extract	10.00
Sodium pyruvate	2.00
D(+)-Glucose (Dextrose)	2.00
Magnesium glycerophosphate	1.00
Magnesium sulphate	0.50
Sodium chloride	5.00
Lithium chloride	10.00
Disodium phosphate anhydrous	2.50
5-Bromo-4-chloro-3-indolyl-ß-D-glucopyranoside	0.05
Agar	12.00

Final pH (25 °C) 7.2 ± 0.2

Directions

Suspend 35 g of powder in 476 ml of distilled water. After sterilisation and cooling, add 1 vial of Listeria Enrichment supplement and 1 vial of Listeria Selective supplement.

Supplement

Listeria Enrichment supplement (Art. no. 8815)
Listeria Selective supplement (Art. no. 8814)

GHS

- H315 H319
- P280-P301+P330+P331-P302+P352-P305+P51+P338



Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8813.0500
2 kg	Plastic container	8813.2000
5 kg	Plastic container	8813.5000

LYSINEMEDIUM

Solid and differential medium for the isolation, cultivation and enumeration of wild yeast in the brewery industry.

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Agar	17.80000
Lysine	1.00000
Potassium dihydrogen phosphate	1.78000
Magnesium sulfate	0.89000
Calcium chloride	0.17800
Sodium chloride	0.08900
Inositol	0.02000
Supplement	0.00815
H3BO3	8.9µg
Biotin	2.0µg
Folic ac	1.0µg
Potassium lactate 50% Sol.	10.0 ml
Lactic ac 10%	1.0 ml

Final pH (25 °C) 4.8 ± 0.2

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9370.0020
10x 100 ml	Glass bottles 125 ml	9535.0100

M17 AGAR

Solid selective medium for the enumeration of *Streptococcus thermophilus* in yoghurt samples.

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Tryptone	2.50
Meat peptone	2.50
Soy peptone	5.00
Yeast extract	2.50
Meat extract	5.00
Sodium ß-glycerophosphate	19.00
magnesium sulfate	0,25
ascorbic acid	0,50
lactose	5,00
Agar	15.00

Final pH (25 °C) 6.8 ± 0.2

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9840.0020
10x 100 ml	Glass bottles 125 ml	9838.0100
10x 200 ml	Glass bottles 250 ml	9838.0200



MACCONKEY AGAR PH. EUR.

Solid selective and differential medium used in the detection, isolation and enumeration of Salmonella and coliforms in clinical specimens according to Pharmacopeial Harmonised Methods and in foodstuff specimens according to ISO 21150.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Gelatin pepton	17.000
Meat peptone	1.500
Casein peptone	1.500
Lactose monohydrate	10.000
Bile salts	1.500
Sodium chloride	5.000
Neutral red	0.030
Crystal violet	0.001
Agar	15.000

Directions

Suspend 51.5 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.1 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8796.0500
2 kg	Plastic container	8796.2000
5 kg	Plastic container	8796.5000



READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9452.0020
30 Plates	Contact plates 65 mm	9456.0030
10x100 ml	Glass bottle 125 ml	9450.0100

MACCONKEY BROTH PH. EUR.

Liquid medium for the detection and enumeration of coliforms according to Pharmacopeial Harmonised Methods.

DEHYDRATED CULTURE MEDIA



Formulation (g/l)	
Gelatin pepton	20.00
Lactose monohydrate	10.00
Ox bile	5.00
Bromocresol purple	0.01

Directions

Dissolve 35 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.3 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8753.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
10x 100 ml	Glass bottle 125 ml	9446.0100

MALT EXTRACT AGAR



Solid medium for the isolation and enumeration of fungi to ISO 16212.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Malt extract	30.0	Suspend 48 g of powder in 1 l of distilled water.
Soy peptone	3.0	
Agar	15.0	

Final pH (25 °C) 5.6 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8287.0500
2 kg	Plastic container	8287.2000
5 kg	Plastic container	8287.5000

READY-TO-USE CULTURE MEDIA



Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9980.0020
30 Plates	Contact plates (double wrapped)	9982.0030
10x 100 ml	Glass bottles 125 ml	9270.0100
10x 200 ml	Glass bottles 250 ml	9270.0200

MALT EXTRACT BROTH



Liquid medium for the cultivation of yeast and mold.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Malt extract	17.0	Dissolve 17 g of powder in 1 l of distilled water.

Final pH (25 °C) 4.8 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8764.0500



MANNITOL SALT AGAR (CHAPMAN AGAR)

Solid selective medium for the isolation of pathogenic staphylococci according to Pharmacopeial Harmonised Methods and ISO 22718.

DEHYDRATED CULTURE MEDIA

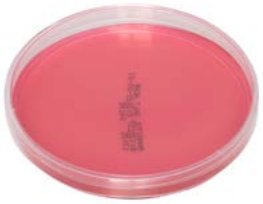
Formulation (g/l)	
Beef extract	1.000
Pancreatic digest of casein	5.000
Peptic digest of meat	5.000
Sodium chloride	75.000
D-Mannitol	10.000
Phenol red	0.025
Agar	15.000

Directions

Suspend 111 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.4 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8743.0500



READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9156.0020

MAXIMUM RECOVERY DILUENT

Isotonic diluent for the maximal recovery of stressed microorganisms according to ISO standards.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Pancreatic digest of casein (Tryptone)	1.00
Sodium chloride	8.50

Directions

Dissolve 9.5 g of powder in 1 l of distilled water and distribute into suitable containers.

Final pH (25 °C) 7.0 ±0.2



Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8485.0500
5 kg	Plastic container	8485.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20x 9 ml	Tubes 16 x 113 mm	9469.0009
10x 100 ml	Glass bottles 125 ml	9472.0100
3x 3 l	Bags	9099.3000
2x 5 l	Bags	9099.5000

MRS AGAR ISO



Solid medium for the culture of lactic acid bacteria according to deMan, Rogosa and Sharpe, modified according to ISO standards and IFU methods. ISO 9232, ISO 15214, ISO 20128.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Enzymatic digest of casein	10.00
Meat extract	10.00
Yeast extract	4.00
D(+)-Glucose (Dextrose)	20.00
Sodium acetate	5.00
Triammonium citrate	2.00
Magnesium sulphate heptahydrate	0.20
Manganese sulphate tetrahydrate	0.05
Dipotassium phosphate	2.00
Polysorbate 80	1.08
Agar	14.00

Directions

Suspend 68.3 g of powder in 1 l of distilled water.

Final pH (25 °C) 5.7 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8761.0500
2 kg	Plastic container	8761.2000
5 kg	Plastic container	8761.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
10x 200 ml	Glass bottles 250 ml	9379.0200

MRS AGAR

Prepared plates. Solid culture medium for detection, isolation and cultivation of lactobacilli and other lactic acid bacteria from food and beverages according to de Man, Rogosa and Sharpe.

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Proteose-Peptone	10.00
Meat extract	8.00
Yeast extract	4.00
D-(+)-Glucose (Dextrose)	20.00
Sodium acetate	5.00
Magnesium sulfate	0.20
Manganese sulfate	0.05
Dipotassium phosphate	2.00
Triamonium citrate	2.00
Polysorbate 80	1.00
Agar	14.00

Final pH (25 °C) 5.7 ±0.2

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9384.0020



MRS BROTH

Liquid culture medium for the isolation of lactobacilli according to deMan, Rogosa and Sharpe.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Peptone proteose	10.00
Meat extract	8.00
Yeast extract	4.00
D(+)-Glucose (Dextrose)	20.00
Sodium acetate	5.00
Triammonium citrate	2.00
Magnesium sulphate	0.20
Manganese sulphate	0.05
Dipotassium phosphate	2.00
Polysorbate 80	1.00

Directions

Suspend 52 g of powder in 1 l of distilled water.

Final pH (25 °C) 6.2 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8733.0500
2 kg	Plastic container	8733.2000
5 kg	Plastic container	8733.5000



MYP AGAR (MANNITOL EGG YOLK POLYMYXIN AGAR)

Selective solid medium according to Mossel for the isolation and identification of *Bacillus cereus* from food samples according to ISO 7932, and ISO 21871.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Peptone	10.000
Mannitol	10.000
Sodium chloride	10.000
Meat extract	1.000
Phenol red	0.025
Agar	15.000

Final pH (25 °C) 7.2 ±0.2

Directions

Suspend 46 g of powder in 900 ml of distilled water.

Supplement

Egg Yolk Emulsion 20 %
(Art. no. 9578)
Polymyxin B Selective Supplement
(Art. no. 8477)

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8710.0500
2 kg	Plastic container	8710.2000
5 kg	Plastic container	8710.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9371.0020

NUTRIENT AGAR APHA, ISO



Solid culture medium for general purpose use according to ISO 6579-1, ISO 6785, ISO 10273, and APHA.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Peptone	5.0	Suspend 23 g of powder in 1 l of distilled water.
Meat extract	3.0	
Agar	15.0	

Final pH (25 °C) 7.0 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8657.0500

NUTRIENT AGAR DEV



Solid general purpose medium according to German regulation for food and water samples.DIN 38411-6.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Meat extract	10.0	Suspend 43 g of powder in 1 l of distilled water.
Meat peptone	10.0	
Sodium chloride	5.0	
Agar	18.0	

Final pH (25 °C) 7.3 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9643.0500
2 kg	Plastic container	9643.2000
5 kg	Plastic container	9643.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9394.0020
10x 200 ml	Glass bottles 250 ml	9396.0200
10x 450 ml	Glass bottles 500 ml	9396.0450
20x 15 ml	Tubles 17x 145 mm	9396.0015

NUTRIENT AGAR ISO



Solid culture medium for general purpose use with less fastidious organisms according to ISO 8914, ISO 16266.

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Meat extract	1.0
Yeast extract	2.0
Peptone	5.0
Sodium chloride	5.0
Agar	15.0

Final pH (25 °C) 7.4 ± 0.2

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9390.0020
10x 100 ml	Glass bottles 125 ml	9373.0100

ORANGE SERUM AGAR



Solid medium for the culture of aciduric organisms especially those associated with the spoilage of citrus products and their derivatives.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Tryptone	10.0
Yeast extract	3.0
Orange serum	5.0
D(+)-Glucose (Dextrose)	4.0
Dipotassium phosphate	3.0
Agar	17.0

Directions

Suspend 42 g of powder in 1 l of distilled water.

Final pH (25 °C) 5.5 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8546.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9591.0020
20x 20 ml	Tubes 16 x 113 mm	9595.0020
10x 200 ml	Glass bottles 250 ml	9595.0200

OXFORD LISTERIA AGAR (BASE)



Solid selective and differential medium for the detection, enumeration and isolation of *Listeria spp.* according to ISO standards 11290-1 and 11290-2.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Tryptone	10.00
Lithium chloride	15.00
Proteose peptone	10.00
Sodium chloride	5.00
Yeast extract	3.00
Starch	1.00
Esculin	1.00
Ammonium iron(III) citrate	0.50
Agar	13.00

Final pH (25 °C) 7.0 ±0.2

Directions

Suspend 58.5 g of powder in 1 l of distilled water.

Supplement

Oxford Agar Selective Supplement (Art. no. 9594)

GHS

- H315-H319
- P280-P302+P352-P305+P351+P338

Warning

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8519.0500

PALCAM LISTERIA AGAR (BASE)

Solid selective and differential medium for the detection, enumeration and isolation of *Listeria spp.* according to ISO standards 11290-1 and 11290-2.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Tryptone	23.00
Lithium chloride	15.00
Mannitol	10.00
Sodium chloride	5.00
Yeast extract	3.00
Starch	1.00
Esculin	0.80
Ammonium iron(III) citrate	0.50
D(+)-Glucose (Dextrose)	0.50
Phenol red	0.08
Agar	13.00

Final pH (25 °C) 7.2 ±0.2

Directions

Suspend 72 g of powder in 1 l of distilled water.

Supplement

Palcam Listeria Agar Selective Supplement (Art. no. 8439)

GHS

- H315-H319
- P280-P302+P352-P305+P351+P338

Warning

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8429.0500
2 kg	Plastic container	8429.2000



PEPTONE WATER, BUFFERED ISO

Liquid medium for dilution and non-selective pre-enrichment from food samples according to ISO 579-1, ISO 6785, ISO 6887, ISO 8261

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Bacteriological peptone	10.00
Sodium chloride	5.00
Disodium hydrogen phosphate (anhydrous)	3.50*
Potassium phosphate	1.50

Final pH (25 °C) 7.0 ±0.2

* Equivalent to 9.0 g of disodium hydrogen phosphate dodecahydrate

Directions

Dissolve 20 g of powder in 1 l of distilled water.

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8449.0500
2 kg	Plastic container	8449.2000
5 kg	Plastic container	8449.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20x 9 ml	Tubes 16 x 113 mm	9230.0009
10x 90 ml	Glass bottles 125 ml	9230.0090
10x 100 ml	Glass bottles 125 ml	9230.0100
10x 200 ml	Glass bottles 250 ml	9230.0200
10x 225 ml	Glass bottles 250 ml	9230.0225
6x 800 ml	Glass bottles 1 l	9230.0800
5x 2 l	Bags	9240.2000
3x 3 l	Bags	9240.3000
2x 5 l	Bags	9240.5000

PEPTONE WATER, BUFFERED PH. EUR.



Diluent for the homogenization of samples for the microbiological examination according to the European Pharmacopeial Harmonised Method and ISO standards ISO 16212, ISO 21149, ISO 21150, 22717, ISO 22718.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Peptone	1.00
Sodium chloride	4.30
Disodium phosphate (anhydrous)	5.77*
Potassium dihydrogen phosphate	3.60

Final pH (25 °C) 7.0 ±0.2

* Equivalent to 7.23 g of disodium hydrogen phosphate dihydrate.

Directions

Dissolve 14.67 g of powder in 1 l of distilled water, heat if necessary. Add 1 to 10 ml of Polysorbate 80 or Polysorbate 20 depending on the type of food or product to be diluted.

Supplement

Tween® 20 (Art. no. 8022), Polysorbate 80

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8644.0500
2 kg	Plastic container	8644.2000
5 kg	Plastic container	8644.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20x 9 ml	Tubes 16 x 113 mm	8682.0009
20x 10 ml	Tubes 16 x 113 mm	8682.0010
10x 90 ml	Glass bottles 125 ml	8682.0090
10x 100 ml	Glass bottles 125 ml	8682.0100
10x 200 ml	Glass bottles 250 ml	8682.0200
10x 225 ml	Glass bottles 250 ml	8682.0225
10x 300 ml	Glass bottles 500 ml	8682.0300
10x 450 ml	Glass bottles 500 ml	8682.0450
6x 800 ml	Glass bottles 1 l	8682.0800
6x 900 ml	Glass bottles 1 l	8682.0900



PLATE COUNT AGAR (PCA)

Medium for aerobic plate counts by the surface inoculation method according to ISO 4833, ISO 8552 and ISO 17410 and IFU No. 6.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Casein peptone	5.00
Yeast extract	2.50
D(+)-Glucose (Dextrose)	1.00
Agar	15.00

Directions

Suspend 23.5 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.0 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8425.0500
2 kg	Plastic container	8425.2000
5 kg	Plastic container	8425.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9585.0020
30 Plates	Contact plates 65 mm	9577.0030
10x 100 ml	Glass bottles 125 ml	9310.0100
10x 200 ml	Glass bottles 250 ml	9310.0200
10x 450 ml	Glass bottles 500 ml	9310.0450



PLATE COUNT SKIM MILK AGAR (PCA)

Solid medium for the plate count of milk and dairy products according to DIN and FIL-IDF standards.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Tryptone	5.00
Yeast extract	2.50
Skim milk	1.00
D(+)-Glucose (Dextrose)	1.00
Agar	10.50

Directions

Suspend 20 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.0 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8459.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
10x 100 ml	Glass bottles 125 ml	9480.0100
10x 200 ml	Glass bottles 250 ml	9480.0200
10x 450 ml	Glass bottles 500 ml	9480.0450

POTATO DEXTROSE AGAR PH. EUR.



Solid culture medium for the detection and enumeration of yeast and mold in foodstuff, especially recommended for dairy products and other samples according to Pharmacopeial Harmonised Methods.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Potato peptone	4.0*
D(+)-Glucose (Dextrose)	20.0
Agar	15.0

Final pH (25 °C) 5.6 ±0.2

* Equivalent to 200 g infusion from potatoes .

Directions

Suspend 39 g of powder in 1 l of distilled water.

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8992.0500
2 kg	Plastic container	8992.2000
5 kg	Plastic container	8992.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
10x 200 ml	Glass bottles 250 ml	9367.0200

PSEUDOMONAS AGAR ISO

Selective medium for *Pseudomonas* species when adding the selective supplement CFC or CN.



DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Gelatine peptone	16.00
Casein peptone	10.00
Potassium sulfate	10.00
Magnesium chloride	1.40
Agar	14.00

Final pH (25 °C) 7.2 ± 0.2

Directions

Dissolve 51.4 g of powder in 1 l of distilled water with 10 ml Glycerol (Art. no. 8110). After sterilisation and cooling, add 2 flasks of either CFC or CN selective supplement.

Supplement

CFC selective supplement (Art. no. 8897)
CN selective supplement (Art. no. 8898)

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8895.0500
2 kg	Plastic container	8895.2000
5 kg	Plastic container	8895.5000



R2A AGAR PH. EUR.

Solid medium for the enumeration of heterotrophic microorganisms in treated waters according to Pharmacopeial Harmonised Methods.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Proteose peptone	0.500
Casein hydrolysate (Tryptone)	0.500
Yeast extract	0.500
D(+)-Glucose (Dextrose)	0.500
Starch	0.500
Sodium pyruvate	0.300
Dipotassium phosphate	0.300
Magnesium sulphate (anhydrous)	0.024
Agar	15.000

Directions

Suspend 18.1 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.2 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8267.0500
2 kg	Plastic container	8267.2000
5 kg	Plastic container	8267.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm (double wrapped)	9160.0020
30 Plates	Membrane filtration platesn 55 mm	9161.0030
10x 100 ml	Glass bottles 125 ml	9177.0100

RAPPAPORT VASSILIADIS BROTH



Liquid medium for the selective enrichment of Salmonella in foodstuff and other samples, according to ISO 6579-1, and ISO 6785:2001 and FIL-IDF.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Soy peptone	4.500
Sodium chloride	7.200
Potassium dihydrogen phosphate	1.260
Dipotassium phosphate	0.180
Magnesium chloride (anhydrous)	13.400
Malachite green	0.036

Directions

Suspend 26.8 g of powder in 1 l of distilled water.

Final pH (25 °C) 5.2 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8229.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20x 10 ml	Tubes 16 x 113 mm	9658.0010
10x 90 ml	Glass bottles 125 ml	9658.0090

REINFORCED CLOSTRIDIAL MEDIUM (RCM) PH. EUR.



Liquid medium for the cultivation and enumeration of Clostridia by the MPN technique according to Pharmacopoeial Harmonised Methods and ISO 10705-4.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Casein peptone	10.00
Yeast extract	3.00
Meat extract	10.00
D(+)-Glucose (Dextrose)	5.00
Sodium chloride	5.00
Sodium acetate	3.00
Soluble starch	1.00
Cysteine	0.50
Agar	0.50

Directions

Suspend 38 g of powder in 1 l of distilled water.

Final pH (25 °C) 6.8 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9749.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
10x 100 ml	Glass bottles 125 ml	9679.0100



SABOURAUD 2 % GLUCOSE BROTH PH. EUR.

Liquid medium for isolation of fungi according to harmonized pharmacopoeia methods.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Casein peptone	5.0	Dissolve 30 g of powder in 1 l of distilled water.
Meat peptone	5.0	
D(+)-Glucose (Dextrose)	20.0	

Final pH (25 °C) 5.6 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8159.0500

SABOURAUD 4 % DEXTROSE AGAR PH. EUR.

Solid medium for the cultivation and enumeration of yeast and fungi according to Pharmacopeial Harmonised Methods and ISO 16212.



DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
D(+)-Glucose (Dextrose)	40.0	Suspend 65 g of powder in 1 l of distilled water.
Meat peptone	5.0	
Casein peptone	5.0	
Agar	15.0	

Final pH (25 °C) 5.6 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8135.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9780.0020
20 Plates	Prepared plates 90 mm (double wrapped)	9786.0020
20 Plates	Prepared plates 90 mm (triple veroackt)	9797.0020
10x 100 ml	Glass bottles 125 ml	9674.0100
10x 200 ml	Glass bottles 250 ml	9674.0200
10x 400 ml	Glass bottles 500 ml	9674.0400
10x 450 ml	Glass bottles 500 ml	9674.0450
20x 6,2 ml	SchrägagarTubes	9162.0006

SABOURAUD 4% DEXTROSE CHLORAMPHENICOL AGAR

Solid medium for the enumeration and cultivation of fungi. Ph. Eur., USP, ISO 16212

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

D(+)-Glucose (Dextrose)	40.00
Casein petone	5.00
Meat peptone	5.00
Agar	15.00
Chloramphenico	l 0.05

Finaler pH (25 °C) 5,6 ±0,2

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9166.0020
20 Plates	Prepared plates 90 mm (double wrapped, bestrahlt)	9170.0020
20 Plates	Prepared plates 90 mm (triple wrapped)	9164.0020
30 Plates	Contact plates (double wrapped)	9225.0030
24 Plates	Contact plates 65 mm (triple wrapped)	9858.0024
10x 100 ml	Glass bottles 125 ml	9675.0100
10x 200 ml	Glass bottles 250 ml	9675.0200
10x 475 ml	Glass bottles 500 ml	9675.0475



SABOURAUD DEXTROSE AGAR WITH TLHTH AS DISINHIBITORS/ NEUTRALISERS (HISTIDIN, LECITHIN, POLYSORBAT 80, NATRIUMTHIOSULFAT)

Solid medium for the enumeration and cultivation of fungi. Ph. Eur. USP, ISO 16212

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

D(+)-Glucose (Dextrose)	40.0
Casein peptone	5.0
Meat Peptone	5.0
Lecithine	0.7
Polysorbate 80	5.0
Histidin	1.0
Sodium thiosulphate $5H_2O$	0.5
Agar	15.0

Final pH (25 °C) 5.6 ± 0.2

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm (double wrapped)	9781.0020
30 Plates	Contact plates 65 mm (double wrapped)	8161.0030





SLANETZ AND BARTLEY AGAR

Solid differential and selective medium for the detection and enumeration of enterococci according to ISO 7899-2.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Tryptose	20.00
Yeast extract	5.00
D(+)-Glucose (Dextrose)	2.00
Dipotassium phosphate	4.00
Sodium azide	0.40
Agar	12.00

Directions

Suspend 43.4 g of powder in 1 l of distilled water.

Supplement

TTC solution 1 %, sterile (Art. no. 8055)

Final pH (25 °C) 7.2 ±0.1

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8174.0500
2 kg	Plastic container	8174.2000
5 kg	Plastic container	8174.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9132.0020
30 Plates	Membrane filtration platesn 55 mm	9134.0030

STANDARD 1 NUTRIENT AGAR

Standard 1 Nutrient Agar, DIN 38411.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Casein peptone	15.0
Yeast extract	3.0
Sodium chloride	6.0
D(+)-Glucose (Dextrose)	1.0
Agar	15.0

Directions

Suspend 40 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.5 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8152.0500

STANDARD 1 NUTRIENT BROTH



Liquid medium for cultivation of fastidious bacteria.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)		Directions
Casein peptone	15.0	Suspend 25 g of powder in 1 l of distilled water.
Yeast extract	3.0	
Sodium chloride	6.0	
D(+)-Glucose (Dextrose)	1.0	

Final pH (25 °C) 7.5 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8180.0500

TERGITOL® 7-LACTOSE-TTC AGAR

Medium for the detection of coliforms by membrane filtration in water analyses. ISO 9308.

READY-TO-USE CULTURE MEDIA

Formulation (g/l)	
Meat peptone	10.000
Meat extract	5.000
Lactose	20.000
Yeast extract	6.000
Bromothymol blue	0.050
Tergitol® 7	0.100
Agar	15.000
TTC sterile solution 1%	2.5 ml

Finaler pH (25 °C) 7.2 ±0.2

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9291.0020
30 Plates	Membrane filtration platesn 65 mm	9293.0030



TERRIFIC BROTH

Nutrient rich media for the cultivation of recombinant *Escherichia coli* strains, with Glycerol.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Yeast extract	24.00
Tryptone	12.00
Dipotassium phosphate	9.40
Potassium dihydrogen phosphate	2.20

Final pH (25 °C) 7.2 ±0.2

Directions

Dissolve 47.6 g of powder in 1 l of distilled water.

Supplement:

Glycerol (Art. no. 8110)

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8049.0500
2 kg	Plastic container	8049.2000
5 kg	Plastic container	8049.5000

THIOGLYCOLAT MEDIUM PH. EUR/USP

Fluid medium used for sterility testing according to the Eur. Pharm., USP, FDA, and for the cultivation of microaerophilic and anaerobic organisms.

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Casein peptone	15.000
Yeast extract	5.000
D(+)-Glucose	5.500
Sodium chloride	2.500
Sodium thioglycolate	0.500
L-Cystine	0.500
Resazurin	0.001
Special agar	0.750

Finaler pH (25 °C) 7.1 ±0.2

Quantity	Packaging Material	Art. no.
10x 100 ml	Glass bottles 125 ml	9561.0100
10x 200 ml	Glass bottles 250 ml	9561.0200
10x 300 ml	Glass bottles 500 ml	9561.0300
10x 450 ml	Glass bottles 500 ml	9561.0450
6x 600 ml	Glass bottles 1 l	9561.0600

TRIPLE SUGAR IRON AGAR (TSI AGAR)



Solid differential medium for the identification of enterobacteria according to ISO standards 6579, 6785 and 10272.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Peptone	20.000
Meat extract	3.000
Yeast extract	3.000
Lactose	10.000
Sucrose	10.000
D(+)-Glucose (Dextrose)	1.000
Sodium chloride	5.000
Iron(III) citrate	0.300
Sodium thiosulphate	0.300
Phenol red	0.024
Agar	12.000

Directions

Suspend 64.6 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.4 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9661.0500

TRYPTIC SOY AGAR (TSA) PH. EUR.



General purpose medium containing animal and plant peptone according to Pharmacopoeial Harmonised Methods and ISO standards ISO 9308-1, ISO 11731, ISO 11133, ISO 22717, ISO 22964.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Casein peptone	15.0
Soy peptone	5.0
Sodium chloride	5.0
Agar	15.0

Directions

Suspend 40 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.3 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9738.0500
2 kg	Plastic container	9738.2000
5 kg	Plastic container	9738.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm (double wrapped)	97620020
20 Plates	Prepared plates 90 mm (triple wrapped)	9696.0020
30 Plates	Contact plates 65 mm (double wrapped)	9698.0030
20 Plates	Settling plates n 90 mm (triple wrapped)	9778.0020
10x 100 ml	Glass bottles 125 ml	9692.0100
10x 200 ml	Glass bottles 250 ml	9692.0200
10x 400 ml	Glass bottles 500 ml	9692.0400
10x 450 ml	Glass bottles 500 ml	9692.0450



TRYPTIC SOY AGAR (TSA) WITH POLYSORBATE 80 AND LECITHIN PH. EUR.

Solid medium for the sampling of surfaces of sanitary importance using the contact plate technique.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Tryptone	15.00
Soy peptone	5.00
Sodium chloride	5.00
Lecithin	0.70
Polysorbate 80	5.00
Agar	15.00

Directions

Suspend 45.7 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.3 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9775.0500

TRYPTIC SOY AGAR (TSA) TLHTH (LECITHIN, HISTIDIN, POLYSORBAT 80, NATRIUMTHIOSULFAT)

General purpose medium for routine hygienic monitoring in presence of disinfectants. Containing animal and plant peptone. Ph. Eur. ISO 9308-1, ISO 11731, ISO 18415, ISO 21149, ISO 21150, ISO 22717, ISO 22718, ISO 22964.

READY-TO-USE CULTURE MEDIA

Formulation (g/l)	
Casein peptone	15.00
Soy peptone	5.00
Sodium chloride	5.00
Histidin	1.00
Lecithine	0.70
Polysorbate 80	5.00
Sodium Thiosulfate	0.50
Agar	15.00

Final pH (25 °C) 7.3 ± 0.2



Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90mm (double wrapped)	9751.0020
60 Plates	Prepared plates 90 mm (triple wrapped)	9690.0060
30 Plates	Contact plates 55 mm (double wrapped)	9321.0030
24 Plates	Contact plates 55 mm (triple wrapped)	9551.0024

TRYPTIC SOY AGAR (TSA) 5% SHEEP BLOOD

Nutrient rich medium suitable for the isolation of pathogenic microorganisms from clinical specimens.

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Casein peptone	15.0
Peptone from soya	5.0
Sodium chloride	5.0
Agar	15.0
Sheep blood	50 ml

Final pH (25 °C) 7.2 ± 0.2

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9750.0020

TRYPTIC SOY BROTH (TSB) PH. EUR.

Liquid high nutrient medium for general purpose use according to Pharmacopeial Harmonised Methods.



DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Casein peptone	17.00
Soy peptone	3.00
Sodium chloride	5.00
Dipotassium phosphate	2.50
Dextrose	2.50

Directions

Dissolve 30 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.3 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9721.0500
2 kg	Plastic container	9721.2000
5 kg	Plastic container	9721.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20x 9 ml	Tubes 16 x 113 mm	9710.0009
20x 10 ml	Tubes 16 x 113 mm	9710.0010
10x 90 ml	Glass bottles 125 ml	9720.0090
10x 100 ml	Glass bottles 125 ml	9720.0100
10x 200 ml	Glass bottles 250 ml	9720.0200
10x 300 ml	Glass bottles 500 ml	9720.0300
10x 450 ml	Glass bottles 500 ml	9720.0450
10x 800 ml	Glass bottles 1 l	9720.0800
10x 900 ml	Glass bottles 1 l	9720.0900
5x 2 l	Bags	9740.2000
2x 5 l	Bags	9740.5000



TRYPTONE YEAST EXTRACT AGAR (WATER-PLATE-COUNT-AGAR)

Solid medium used for the enumeration of water microorganisms. ISO standards ISO 6222, ISO 5667-2/3, ISO 6887, ISO 8199, ISO 11133.

READY-TO-USE CULTURE MEDIA

Formulation (g/l)

Yeast Extract	3.00
Casein peptone (Tryptone)	6.00
Agar	15.00

Final pH (25 °C) 7.2 ± 0.2

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9684.0020
20x 15 ml	Tubes 16 x 113 mm	9688.0015
10x 100 ml	Glass bottles 125 ml	9688.0100
10x 20 ml	Glass bottles 250 ml	9688.0200
10x 450 ml	Glass bottles 500 ml	9688.0450



TSC AGAR (TRYPTOSE SULPHITE CYCLOSERINE AGAR)

Solid medium for the isolation and differentiation of *Clostridium perfringens* according to ISO 7937, ISO 6461-2, ISO 14189.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Tryptone	15.0
Soy peptone	5.0
Yeast extract	5.0
Sodium disulphite	1.0
Ammonium iron(III) citrate	1.0
Agar	18.0

Final pH (25 °C) 7.6 ±0.2

Directions

Suspend 45 g of powder in 1 l of distilled water.

Supplement

D-Cycloserine Selective Supplement (Art. no. 9795)
Egg Yolk Emulsion 20 % (Art. no. 9578)
Clostridium perfringens Supplement (Art. no. 9716)"

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8032.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
30 Plates	Membrane filtration plates 55 mm	9324.0030
10x 100 ml	Glass bottles 125 ml	9632.0100
10x 200 ml	Glass bottles 250 ml	9632.0200

VRBL AGAR (VIOLET RED BILE LACTOSE AGAR)



Solid medium for the detection and enumeration of coliforms in milk and other dairy products according to APHA and ICMSF, FIL-IDF as well as ISO 5541-1, and ISO 4832:2006.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Yeast extract	3.000
Peptone	7.000
Bile salts no. 3	1.500
Lactose	10.000
Sodium chloride	5.000
Neutral red	0.030
Crystal violet	0.002
Agar	13.000

Directions

Suspend 39.5 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.4 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	7883.0500

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9875.0020
30 Plates	Contact plates 65 mm	9666.0030
10x 100 ml	Glass bottles 125 ml	9867.0100
10x 200 ml	Glass bottles 250 ml	9867.0200



VRBD AGAR (VIOLET RED BILE DEXTROSE AGAR) PH. EUR.

Selective solid medium for the enumeration of enterobacteria acccording to ISO 21528 and Pharmacopeial Harmonised Methods.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Yeast extract	3.000
Pancreatic digest of gelatin	7.000
Bile salts	1.500
D(+)-Glucose (Dextrose)	10.000
Sodium chloride	5.000
Neutral red	0.030
Crystal violet	0.002
Agar	13.000

Directions

Suspend 39.5 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.4 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	7836.0500
2 kg	Plastic container	7836.2000
5 kg	Plastic container	7836.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9168.0020
30 Plates	Contact plates 65 mm	9416.0030
10x 100 ml	Glass bottles 125 ml	9863.0100
10x 200 ml	Glass bottles 250 ml	9863.0200
10x 450 ml	Glass bottles 500 ml	9863.0450



WORT AGAR

Solid medium for the general cultivation of yeasts.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Malt extract	15.00
Casein peptone	0.75
Maltose	12.75
Dextrin	2.75
Dipotassium hydrogen phosphate	1.00
Ammonium chloride	1.00
Agar	17.00

Directions

Suspend 50.25 g of powder in 1 l of distilled water.

Supplement

Glycerol (Art. no. 8110)

Final pH (25 °C) 4.8 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	7772.0500
2 kg	Plastic container	7772.2000
5 kg	Plastic container	7772.5000

WORT BROTH

Liquid medium for the production of yeast suspensions.



DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Malt extract	15.00
Casein peptone	1.00
Maltose	12.50
Dextrin	2.50
Potassium dihydrogen phosphate	1.00
Ammonium chloride	1.00

Directions

Suspend 33 g of powder in 1 l of distilled water.

Final pH (25 °C) 4.8 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	7759.0500
2 kg	Plastic container	7759.2000
5 kg	Plastic container	7759.5000

XLD AGAR (XYLOSE LYSINE DEOXYCHOLATE AGAR) ISO

Medium for the isolation of enteropathogenic species, especially *Shigella* and *Salmonella* in food and animal feeding stuff according to ISO 6579-1, ISO 21567.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Xylose	3.75
L-Lysine	5.00
Lactose	7.50
Sucrose	7.50
Sodium chloride	5.00
Yeast extract	3.00
Phenol red	0.08
Sodium deoxycholate	1.00
Sodium thiosulphate	6.80
Ammonium iron(III) citrate	0.80
Agar	15.00

Directions

Suspend 55.43 g of powder in 1 l of distilled water.



Final pH (25 °C) 7.4 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	7649.0500
2 kg	Plastic container	7649.2000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9649.0020



YGC AGAR (YEAST EXTRACT GLUCOSE CHLORAMPHENICOL AGAR)

Solid and selective medium for the isolation and enumeration of yeasts and moulds in milk and dairy products according to ISO standard 7954 and FIL-IDF 94B.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
D(+)-Glucose (Dextrose)	20.00
Yeast extract	5.00
Chloramphenicol	0.10
Agar	15.00

Directions

Suspend 40 g of powder in 1 l of distilled water.

Final pH (25 °C) 6.6 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	7533.0500
2 kg	Plastic container	7533.2000
5 kg	Plastic container	7533.5000

READY-TO-USE CULTURE MEDIA

Quantity	Packaging Material	Art. no.
20 Plates	Prepared plates 90 mm	9844.0020
10x 100 ml	Glass bottles 125 ml	9849.0100
10x 200 ml	Glass bottles 250 ml	9849.0200



2X YT AGAR

Solid nutrient medium for the cultivation of recombinant strains of *Escherichia coli* and for the growth of filamentous bacteriophages.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)	
Tryptone	16.0
Yeast extract	10.0
Sodium chloride	5.0
Agar	15.0

Directions

Suspend 46 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.0 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	7581.0500
2 kg	Plastic container	7581.2000
5 kg	Plastic container	7581.5000

2X YT BROTH

Liquid nutrient medium for the cultivation of recombinant strains of *Escherichia coli* and for the growth of filamentous bacteriophages.

DEHYDRATED CULTURE MEDIA

Formulation (g/l)

Tryptone	16.0
Yeast extract	10.0
Sodium chloride	5.0

Directions

Suspend 31 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.0 ±0.2

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	7548.0500
2 kg	Plastic container	7548.2000
5 kg	Plastic container	7548.5000





SUPPLEMENTS

CFC SELECTIVE SUPPLEMENT

Sterile selective supplement for the isolation of *Pseudomonas spp.* according to ISO 13720 und ISO 16266.

Formulation (g/vial)

Cetrimide	0.005
Fucidin	0.005
Cephalothin sodium salt	0.025“

Directions

Each vial is sufficient for 500 ml (8897.0010) or 5 l (8897.5000) of Pseudomas Agar base (Art. no. 8895).

GHS

- H334 H317
- P285 P261 P280 P342+P311 P501a

Danger



Quantity	Packaging Material	Art. no.
10 vials	Glass vial	8897.0010
1 vial	Glass vial	8897.5000

CLOSTRIDIUM PERFRINGENS SUPPLEMENT

Sterile selective supplement for isolation and presumptive identification of *Clostridium perfringens* by using fluorogenic substrates.

Formulation (g/l)

MUP (4-Methylumbelliferyl phosphate)	0.025
D-Cycloserine	0.100

Directions

Each vial is sufficient for 200 ml of medium base (Art. no. 8032).

Storage

2-25 °C

Quantity	Packaging Material	Art. no.
10 vials	Glass vial	9716.0010

CN SELECTIVE SUPPLEMENT

Sterile selective supplement for the isolation of *Pseudomonas spp.* according to ISO 16266 and DIN/EN 12780.

Formulation (g/vial)

Cetrimide	0.1000
Nalidixic acid, sodium salt	0.0075

Directions

Each vial is sufficient for 500 ml of Pseudomas Agar base (Art. no. 8895).

GHS

- H302 H315 H319 H334 H317 H400
- P261 P273 P280 P284 P301+P330+P331 P303+P361+P353 P304+P340 P305+P351+P338 P308+P311 P501

Danger



Quantity	Packaging Material	Art. no.
10 vials	Glass vial	8898.0010

D-CYCLOSERINE SELECTIVE SUPPLEMENT

Sterile selective supplement for the isolation and presumptive identification of *Clostridium perfringens* according to ISO standards and other regulations.

Formulation (g/vial)

D-Cycloserine	0.100

Directions

Each vial is sufficient for 250 ml of medium base (Art. no. 8032).

Storage

2-25 °C

Quantity	Packaging Material	Art. no.
10 vials	Glass vial	9795.0010

EGG YOLK EMULSION 20, STERILE

Sterile egg yolk emulsion for microbiological media according to ISO 7932:2004.

Formulation (ml/l)		Storage
Egg yolk	200 ml	8-14 °C
Sterile water	800 ml	

Quantity	Packaging Material	Art. no.
100 ml	Plastic bottle	9578.0100
500 ml	Plastic bottle	9578.0500

EGG YOLK TELLURITE EMULSION 20 %, STERILE

Sterile egg yolk emulsion with potassium tellurite for the preparation of Baird Parker Medium according to ISO 6888-1.

Formulation (ml/l):		Storage
Egg yolk	200 ml	8-14 °C
Potassium tellurite	2.10	
Sodium chloride	4.25	
Sterile water 800	ml	

Quantity	Packaging Material	Art. no.
50 ml	Plastic bottle	9557.0050
100 ml	Plastic bottle	9557.0100
500 ml	Plastic bottle	9557.0500

FRASER LISTERIA SELECTIVE SUPPLEMENT

Sterile selective supplement for the isolation of *Listeria* species.

Formulation (g/vial)		Directions	Storage
Sodium nalidixate	0.0100	Each vial is sufficient for 500 ml of medium base (Art. no. 9439).	2-25 °C
Acriflavine	0.0125		
Ammonium iron(III) citrate	0.2500		

GHS

- H315-H317-H319-H334-H335
- P261-P285-P305+P351+P338-P405-P501



Quantity	Packaging Material	Art. no.
10 vials	Glass vial	9442.0010

GLYCEROL (PROPAN-1,2,3-TRIOL) FOR MICROBIOLOGY AND MOLECULAR BIOLOGY

General purpose reagent for microbiology and molecular biology according to Eur. Pharm.

Formulation (g/l)	
Glycerol	1.0

Quantity	Packaging Material	Art. no.
100 ml	Plastic bottle	8110.0100

HALF FRASER LISTERIA SELECTIVE SUPPLEMENT

Sterile selective supplement for *Listeria* enrichment according to ISO 11290-1:2006.

Formulation (g/vial)		Directions	Storage
Sodium nalidixate	0.0050	Each vial is sufficient for 500 ml of medium base (Art. no. 9439).	2-25 °C
Acriflavine	0.0062		
Ammonium iron(III) citrate	0.2500		

GHS

- H315-H317-H319-H334-H335-H412
- P260-P280-P285-P305+P351+P338-P501



Quantity	Packaging Material	Art. no.
10 vials	Glass vial	9250.0010

LEGIONELLA BCYE GROWTH SUPPLEMENT

Growth supplement to complete BCYE medium base.

Formulation (g/vial)		Directions	Storage
ACES buffer	5.000	Each vial is sufficient for 500 ml of medium base (Art. no. 8811). Content: 5x freeze-dried supplement + 5x sterile solvent“	2-25 °C
Potassium hydroxide	1.400		
Iron(III) pyrophosphate	0.125		
Potassium α-ketoglutarate	0.500		
L-Cysteine hydrochloride	0.200		

GHS

- H302-H314
- P260-P280-P303-P305+P361+P353-P305+P3510P338-P308+P311-P501



Quantity	Packaging Material	Art. no.
5 vials	Glass vial	8861.0005

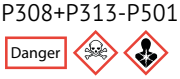
LEGIONELLA GVPC SELECTIVE SUPPLEMENT

Sterile selective supplement for the isolation of *Legionella species* from water samples.

Formulation (g/vial)		Directions	Storage
Glycine	1.5000	Each vial is sufficient for 500 ml of medium base (Art. no. 8811).	2-25 °C
Vanomycin	0.0005		
Polymycin B sulphate	40000 IU		
Cycloheximide	0.0400		

GHS

- H301-H341-H360D
- P260-P280-P301+P330+P331-P308+P313-P501



Quantity	Packaging Material	Art. no.
10 vials	Glass vial	8820.0010

LISTERIA ENRICHMENT SUPPLEMENT (ALOA)

Supplement that enhances the growth of *Listeria spp.*

Formulation (g/bottle)

L-alpha-Phosphatidylinositol	1.00
Sterile distilled water	24 ml

Directions

Each bottle is sufficient to supplement 500 ml (8815.0010) or 10 l (8815.9010) of medium base (Art. no. 8813)

Quantity	Packaging Material	Art. no.
10 bottles	Glass bottle	8815.0010
480 ml	Plastic bottle	8815.9010

LISTERIA SELECTIVE SUPPLEMENT (ALOA)

Selective supplement for isolation and confirmation of *Listeria monocytogenes* formulated according to ISO 11290.

Formulation (g/vial)

Polymyxin B	38350 IU
Cycloheximide	0.025
Ceftazidime	0.010
Nalidixic acid	0.010

Directions

Each vial is sufficient to supplement 500 ml (8814.0010) or 10 l (8814.9010) of medium base (Art. no. 8813)

GHS

- H300 H334 H317 H341 H360D H412
- P261-P280 P284 P301+P310 P303+P361+P353 P304+P340 P305+P351+P338 P501

Danger 

Quantity	Packaging Material	Art. no.
10 vials	Glass vial	8814.0010
1 vial	Glass vial	8814.9010

MUG (4-METHYLUMBELLIFERYL-β-D-GLUCURONIDE)

Sterile supplement for the detection of *Escherichia coli.*

Formulation (g/vial)

4-Methylumbelliferyl-β-D-glucuronide	0.050

Directions

Each vial is sufficient for 500 ml of medium base.

Storage

2-25 °C

Quantity	Packaging Material	Art. no.
10 vials	Glass vial	8751.0010

OXFORD AGAR SELECTIVE SUPPLEMENT

Sterile selective supplement for the isolation of Listeria in food samples.

Formulation (g/vial)		Directions	Storage
Cycloheximide	0.2000	Each vial is sufficient for 500 ml of medium base (Art. no. 8519).	2-25 °C
Colistin sulphate	0.0100		
Acriflavine	0.0025		
Cefotetan	0.0010		
Phosphomycin sodium salt	0.0050		

GHS

- H300-H317-H319-H341-H360D-H411
- P261-P280-P305+P351+P338-P309+P311-P501



Quantity	Packaging Material	Art. no.
10 vials	Glass vial	9594.0010

PALCAM LISTERIA AGAR SELECTIVE SUPPLEMENT

Sterile selective supplement for the isolation of Listeria spp.

Formulation (g/vial)		Directions	Storage
Polymyxin B	0.0050	Each vial is sufficient for 500 ml of medium base (Art. no. 8429).	2-25 °C
Acriflavine	0.0025		
Ceftazidime	0.0100		

GHS

- H318-H412
- P273-P280-P303+P361+P353-P305+P351+P338-P501



Quantity	Packaging Material	Art. no.
10 vials	Glass vial	8439.0010

POLYMYXIN B SELECTIVE SUPPLEMENT

Sterile selective supplement for the isolation of *Bacillus* cereus in food samples.

Formulation (g/vial)		Directions	Storage
Polymyxin B sulphate	50000	Each vial is sufficient to supplement 500 ml (8477.0010) or 5 l (8477.5000) of medium base (Art. no. 8710).	2-25 °C
Expcipient (sufficient amount)			

Quantity	Packaging Material	Art. no.
10 vials	Glass vial	8477.0010
1 vial	Glass vial	8477.5000

TTC SOLUTION 1 %, STERILE

Indicator, added to many microbiological culture media.

Formulation (g/l)		Storage
2,3,5-Triphenyl tetrazolium chloride	10.0	4-12 °C
Sterile water	1000 ml	

Quantity	Packaging Material	Art. no.
100 ml	Glass vial	8055.0100


MEDIA
COMPONENTS

AGAR BACTERIOLOGICAL, EUROPEAN TYPE

Specification

- Particle size 95 % over sieve 60 mm
- Gel strength (1.5 %, Nikan) 800-1100 g/cm²
- Melting point (1.5 %) 85 ±3 °C
- Gelling point (1.5 %) 35 ±3 °C
- Turbidity (1.5 %) max. 12
- pH (1.5 %) after autoclaving 6.5 ±0.4
- Loss on drying max. 10 % (w/w)
- Ash max. 4.5 % (w/w)
- Total aerobic count < 3000 CFU/g
- Coliforms < 3 CFU/g
- Moulds and yeast < 100 CFU/g

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9972.0500
2 kg	Plastic container	9972.2000
5 kg	Plastic container	9972.5000

MALT EXTRACT

Specification

- Loss on drying max. 6.0 %
- Ash max. 4.5 %
- Sodium chloride (NaCl) max. 1.0 %
- pH (3 % solution) 4.8-5.8
- Maltose > 60 %
- Total aerobic count < 10000 CFU/g
- Moulds and yeast < 20 CFU/g
- *Escherichia coli* absent in 10 g
- *Salmonella spp.* absent in 25 g

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8745.0500
2 kg	Plastic container	8745.2000
5 kg	Plastic container	8745.5000

PEPTONE FROM CASEIN (PANCREATIC DIGESTED CASEIN)

Specification

- Amino nitrogen (AN) > 3.9 (% w/w)
- Total nitrogen (TN) > 10.0 (% w/w)
- Loss on drying max. 6.0 %
- Chlorides (NaCl) max. 1.0 %
- Ash max. 17.0 %
- pH (2 % solution) after autoclaving 6.5-7.5
- Total aerobic count < 10000 CFU/g
- Coliforms < 10 CFU/g
- Moulds and yeast < 100 CFU/g

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9754.0500
2 kg	Plastic container	9754.2000
5 kg	Plastic container	9754.5000

SOY PEPTONE, PAPAIN-DIGESTED (ANIMAL/GMO FREE)

Specification

- Amino nitrogen (AN) 2.0-3.5 %
- Total nitrogen (TN) 9.0-11.0 %
- Loss on drying max. 6.0 %
- Chlorides (NaCl) max. 1.0 %
- Ash max. 21.0 %
- pH (2 % solution) 6.5-7.5
- Total aerobic count < 10000 CFU/g
- Coliforms < 10 CFU/g
- Moulds and yeast < 20 CFU/g

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8490.0500

TRYPTONE FROM CASEIN (TRYPSIN-DIGESTED CASEIN)

Specification

- Amino nitrogen (AN) 3.0 – 4.5 % w/w
- Total nitrogen (TN) 12.0 – 13.5 % w/w
- Loss on drying max. 6.0 %
- Chlorides (NaCl) max. 1.0 %
- Ash max. 6.0 %
- pH (2 % solution) 6.8-7.2
- Total aerobic count < 10000 CFU/g
- Coliforms < 10 CFU/g
- Moulds and yeast < 20 CFU/g

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	8028.0500
2 kg	Plastic container	8028.2000

YEAST EXTRACT

Specification

- Amino nitrogen (AN) min. 4.5-5.8 %
- Total nitrogen (TN) 10.0-11.8 %
- Total carbohydrates 7.0-13.0 % (g/100 g)
- Loss on drying max. 6.0 %
- Sodium chloride (NaCl) max. 0.5 %
- pH (2 % solution) 6.5-7.5
- Total aerobic count < 5000 CFU/g
- Coliforms < 5 CFU/g
- Moulds and yeast < 100 CFU/g

Quantity	Packaging Material	Art. no.
500 g	Plastic bottle	9263.0500
2 kg	Plastic container	9263.2000
5 kg	Plastic container	9263.5000

Please check the best-before date on the product package before storage. The date refers to the shelf life of unopened packages when stored as indicated on the label.



GENERAL INSTRUCTIONS

STORAGE OF DEHYDRATED MEDIA

Be aware that dehydrated media are highly hygroscopic, light-sensitive and heat-sensitive. They must be stored at a temperature of 4–30 °C, larger temperature fluctuations and direct sunlight are to be avoided. Close an open package thoroughly to prevent moisture from getting in.

PREPARATION OF THE MEDIA

Follow the instructions on the respective label or the technical data sheet. The safety data sheet contains information on possible hazards.

Place a quantity of medium powder, measured according to the manufacturing instructions (weight tolerance max. 1 %), in a clean, sterile and undamaged vessel with at least twice the final volume to allow thorough mixing.

Add a portion of the required amount of distilled water and stir to dissolve the medium. Then add the remaining water from the sides of the container to wash off possible powder remains. Agar-containing media must be brought to the boil carefully and stirred to dissolve the agar before sterilization.

The medium should preferably be sterilized on the day of manufacture.

Unless otherwise stated, the pH of the medium does not need to be adjusted and will be within the specified pH range after sterilization. Measure at 25 °C. Especially with older media batches, the pH should be checked after autoclaving. The pH can change considerably as a result of autoclaving.

STERILIZATION

Please follow the instructions on the respective label or technical data sheet. Observe the general laboratory practice for using autoclaves. Avoid autoclaving the medium longer than necessary or at a higher temperature.

SUPPLEMENTATION

Supplements should be stored according to the instructions and reconstituted if necessary. Follow the instructions on the packaging.

Before adding heat-sensitive supplements, the medium should be cooled down to 50 °C. The supplement should be warmed up to room temperature before addition. Mix quickly and thoroughly before distributing the medium into the final containers.

BIOSOLUTE® READY-TO-USE CULTURE MEDIA
FOR MICROBIOLOGY

BIOSOLUTE® offers you a constantly growing range of ready-to-use microbiological culture media for the detection of microorganisms for a great variety of applications.

Contact plates, size 55 mm
BIOSOLUTE® prepared contact plates for microbiological control of disinfection and cleaning of surfaces are packed in practical blister packs of 6 plates each. The blisters are offered in cellophane bags, double or triple packed, irradiated bags with an 8-14 kGy irradiation indicator on each blister. Storage is at room temperature with a shelf life of 12 to 15 months.

Prepared plates, size 90 mm
BIOSOLUTE® ready-to-use plates are available for a broad range of applications for isolation and identification of microbiological organisms. Also available are plates for hygiene control for use in monitoring of microbiological contamination of surfaces and air in cleanrooms, isolators, for example in food industry and hospitals. These ready-to-use agar plates are packed with cellophane foil in packaging units of 10.

Depending on the application, the plates are also available double or triple packed with an 8-14 kGy irradiation indicator on the side. Storage is usually refrigerated with a shelf life of 3 or up to 6 months.

Ready-to-use media in bottles and tubes
BIOSOLUTE® liquid and solid ready-to-use media in bottles and tubes are available in a variety of sizes. Bottles of agar for pouring plates are sealed with plastic lids suitable for heating in a microwave. Ready-to-use liquid culture media for pre-enrichment, dilution or sterility control are provided with a septum cap. Storage is at room temperature with a shelf life of 12 to 15 months.

Ready-to-use media in bags
BIOSOLUTE® liquid ready-to-use media in bags for the larger regular demand are available in 2 l, 3 l and 5 l sizes. The sterile PVC bags are plasticiser-free and suitable for use in food testing. With two outlets, a latex-free polycarbonate injection port for the addition of additives and a connection point for an automatic dispenser. Stored at room temperature, the bags have a shelf life of between 12 and 16 months depending on the medium.





APPLICATION AREAS OF THE MICROBIOLOGICAL CULTURE MEDIA

Product name	Water analysis	Food analysis	Pharma/ Cosmetics	Molecular Biology
Baird Parker Agar (base)		X	X	
Blood Agar (base)			X	
Brain Heart Infusion Broth (BHI Broth)	X	X		
Brilliant Green Bile Broth	X	X		
Casein Peptone Lecithin Polysorbate Broth (base)		X	X	
Cetrimide Agar Ph. Eur.	X	X	X	
Columbia Agar Ph. Eur.		X	X	
DEV Nutrient Agar	X	X		
DG 18 Agar (Dichloran Glycerol Chloramphenicol Agar) (base)		X		
DRBC Agar (Dichloran Rose Bengal Chloramphenicol Agar)		X		
Enterobacteriaceae Enrichment Broth Mossel (EE Broth)			X	
Fraser Broth (base)		X		
Kanamycin Aesculin Azide Agar Base (KAA Agar)		X		
Lactose Broth	X	X	X	
Lactose Broth DEV	X			
Lauryl Sulphate Broth		X		
LB Agar acc. to Lennox				X
LB Agar acc. to Miller				X
LB Broth acc. to Lennox				X
LB Broth acc. to Miller				X
Legionella BCYE Agar (base)	X	X		
Listeria Selective Agar Base according to Ottaviani and Agosti (ALOA)		X	X	
MacConkey Agar Ph. Eur.	X	X	X	
MacConkey Broth Ph. Eur.		X	X	
Malt Extract Agar		X	X	
Malt Extract Broth		X	X	
Mannitol Salt Agar (Chapman Agar)		X	X	
Maximum Recovery Diluent		X		
MRS Agar ISO		X		
MRS Broth		X		
MYP Agar (Mannitol Egg Yolk Polymyxin Agar) (base)		X		
Nutrient Agar APHA	X	X	X	

Product name	Water analysis	Food analysis	Pharma/ Cosmetics	Molecular Biology
Orange Serum Agar		X		
Oxord Listeria Agar (base)		X		
PALCAM Listeria Agar (base)		X		
Peptone Water, buffered ISO	X	X	X	
Peptone Water, buffered Ph.Eur.			X	
Plate Count Agar (PCA)	X	X	X	
Plate Count Skim Milk Agar (PCA)		X		
Potato Dextrose Agar Ph. Eur.		X	X	
Pseudomonas Agar (Base) ISO		X		
R2A Agar Ph. Eur.	X	X	X	
Rappaport Vassiliadis Broth		X		
Reinforced Clostridial Medium (RCM) Ph. Eur.		X		
Sabouraud 2 % Glucose Broth Ph. Eur.		X	X	
Sabouraud 4 % Dextrose Agar Ph. Eur.		X	X	
Slanetz and Bartley Agar (base)	X			
Standard 1 Nutrient Agar		X		
Standard 1 Nutrient Broth		X		
Terrific Broth				X
Triple Sugar Iron Agar		X		
Tryptic Soy Agar Ph. Eur.	X	X	X	
Tryptic Soy Agar with Polysorbate 80 and Lecithin Ph. Eur.	X	X	X	
Tryptic Soy Broth Ph. Eur.	X	X	X	
TSC Agar (Tryptose Sulfite Cycloserine Agar)		X		
VRB Agar (Violet Red Bile Lactose Agar)	X	X		
VRBD Agar (Violet Red Bile Dextrose Agar) Ph. Eur.	X	X		
Wort Agar		X		
Wort Broth		X		
XLD Agar (Xylose Lysine Deoxycholate Agar) ISO		X	X	
YGC Agar (Yeast Extract Glucose Chloramphenicol Agar)		X		
YPD Broth				X
2xYT Agar				X
2xYT Broth				X



Germany
Tel.: 0800 4393784
sales@thgeyer.de

Switzerland
Tel.: +41 41 552 01 01
sales@thgeyer.ch

Denmark
Tel.: +45 4630 0030
sales@thgeyer.dk

Poland
Tel.: +48 22 427 64 64
sales@thgeyer.pl

Sweden
Tel.: +46 8 6030200
sales@thgeyer.se

Other countries
Tel.: +49 7159 1637-823
sales@thgeyer.com

www.thgeyer.com

TH.GEYER
SUPPLYING YOUR IDEAS