

MICROBIOLOGY

READY-TO-USE AND DEHYDRATED CULTURE MEDIA & SUPPLEMENTS

BIOSOLUTE®
A BRAND OF TH.GEYER



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.

YOUR APPLICATIONS

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

OUR PORTFOLIO

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

Dry culture media: Dehydrated culture media (powders and granules), media components (powders) in pack sizes of 500 g, 2 kg, 5 kg and 10 kg, as well as supplements.

This brochure showcases a selection of our most popular products. The complete BIOSOLUTE® portfolio is available in our webshop at **www.thgeyer.com**

Tailored solutions for your requirements
Looking for a specific culture medium that is not listed? Please contact your personal sales representative directly or send any questions and comments to **gpm@thgeyer.de**



READY-TO-USE PLATES, 90 MM



BIOSOLUTE® ready-to-use microbiological culture media are available in a wide range of 90 mm plates for a variety of applications. These ready-to-use agar plates, with a fill volume of 21 ± 2 ml, are packaged in cellophane bags containing 10 prepared plates each.

- Produced under cleanroom conditions
- High-quality raw materials
- Excellent batch-to-batch consistency
- Quality controlled in accordance with ISO 11133

FOR MICROBIOLOGY

Description	PK	Art. no.
Bacillus Cereus bromothymol blue Agar (PEMBA)	20	9479.0020
Baird Parker Agar	20	9746.0020
Cetrimide Agar	20	9248.0020
Chromogenic Coliform Agar (CCA)	20	9950.0020
Columbia Agar with sheep blood	20	9772.0020
DG 18 Agar	20	9526.0020
DRBC Agar (Dichloran-Rose-Bengal-Chloramphenicol Agar)	20	9627.0020
Kanamycin Esculin Azide Agar (KAA Agar)	20	9082.0020
Listeria selective agar according to Ottaviani and Agosti (ALOA)	20	9946.0020
MacConkey Agar No. 3	20	9452.0020
Malt Extract Agar	20	9980.0020
MYP Agar (Mannitol Egg Yolk Polymyxin Agar)	20	9371.0020
Plate Count Agar (PCA)	20	9585.0020
Pseudomonas CFC Selective Agar	20	9145.0020
R2A Agar	20	9160.0020
Sabouraud 4 % Maltose Agar	20	9020.0020
Slanetz and Bartley Agar	20	9132.0020
Tryptic Soy Agar (TSA) Ph. Eur.	20	9762.0020
TSA 5 % sheep blood	20	9750.0020
VRBD Agar (Violet Red Bile Dextrose Agar)	20	9168.0020
WL Nutrient Agar (Wallerstein Laboratories)	20	9251.0020
YGC Agar (Yeast Extract Glucose Chloramphenicol Agar)	20	9844.0020





STORAGE AT ROOM TEMPERATURE (RT)

Description	PK	Art. no.
Cetrimide Agar RT	20	8522.0020
MacConkey Agar RT	20	8524.0020
Mannitol Salt Agar (Chapman) RT	20	8523.0020
R2A Agar RT	20	8527.0020
Tryptone Soy Agar (TSA) RT	20	8520.0020
VRBD Agar (Violet Red Bile Dextrose Agar) RT	20	8525.0020
XLD Agar RT	20	8526.0020



READY-TO-USE PLATES FOR HYGIENE CONTROL, 90 MM

BIOSOLUTE® ready-to-use 90 mm plates are designed for monitoring microbiological contamination of surfaces and air in cleanrooms, isolators, the food industry and healthcare environments. For hygiene monitoring in the presence of disinfectant residues, BIOSOLUTE® media containing neutralisers (TLHTh) are recommended. These formulations include the four neutralising agents histidine, lecithin, polysorbate 80 and sodium thiosulphate. Bags containing 10 plates are supplied in either double- or triple-wrapped cellophane packaging.

- Produced under cleanroom conditions
- Supplied with irradiation indicator
- Quality controlled in accordance with ISO 11133



FOR HYGIENE MONITORING

Description	PK	Art. no.
Sabouraud Agar	20	9797.0020
Sabouraud Dextrose Agar	20	9786.0020
Sabouraud Dextrose Agar TLHTh	20	9781.0020
Sabouraud Dextrose Chloramphenicol Agar	20	9164.0020
Tryptic Soy Agar (TSA)	20	9696.0020
Tryptic Soy Agar (TSA) TLHTh	20	9751.0020



STORAGE AT ROOM TEMPERATURE (RT)

Description	PK	Art. no.
Sabouraud Agar TLHTh RT	20	8509.0020
Sabouraud Chloramphenicol Agar RT	20	8513.0020
Sabouraud Dextrose Agar RT	20	8514.0020
Tryptone Soy Agar (TSA) Penase RT	20	8521.0020
Tryptone Soy Agar (TSA) RT	20	8510.0020
Tryptone Soy Agar (TSA) TLHTh RT	20	8511.0020

SETTLING PLATES, 90 MM

BIOSOLUTE® settling plates for the collection of environmental samples from the air (fully compatible with most commercially available air samplers) or for other types of environmental sampling e.g. finger, glove or swab samples. Fill volume of 30 ± 2 ml. Items labelled RT to be stored at room temperature.



Description	PK	Art. no.
Tryptic Soy Agar (TSA) (double wrapping)	20	9765.0020
Tryptic Soy Agar (TSA) (triple wrapping)	20	9778.0020
Tryptic Soy Agar (TSA) TLHTh (triple wrapping)	20	9774.0020
Tryptic Soy Agar (TSA) TLHTh RT	20	8528.0020

CONTACT PLATES, 55 MM

BIOSOLUTE® contact plates for the microbiological monitoring of surface cleaning and disinfection are supplied either double-wrapped in convenient blister packs containing 6 contact plates each, or triple-wrapped in stacks of 8x 10 plates. Plates with a click-lock lid are supplied in stacks of 3x 10 plates. Products marked RT can be stored at room temperature.



PACKAGED IN BLISTER PACKS

Description	PK	Art. no.
DG 18 Agar RT	30	9543.0030
DG 18 Metal Agar RT	30	9531.0030
MacConkey Agar Nr. 3 RT	30	9456.0030
Malt Extract Agar RT	30	9982.0030
Plate Count Agar (PCA) RT	30	9577.0030
Sabouraud Dextrose Chloramphenicol Agar RT	30	9225.0030
Tryptic Soy Agar (TSA) TL RT	30	9691.0030
Tryptic Soy Agar (TSA) TLHTh RT	30	9321.0030
Tryptic Soy Agar (TSA) RT	30	9698.0030
VRBD Agar (Violet Red Bile Dextrose Agar) RT	30	9416.0030



PACKAGED IN STACKS, WITH CLICK-LOCK CLOSURE

Description	PK	Art. no.
Sabouraud Dextrose Chloramphenicol Agar RT	30	9151.0030
Sabouraud TLHTh Agar RT	30	9158.0030
Tryptic Soy Agar (TSA) TLHTh RT	30	9745.0030
Tryptic Soy Agar (TSA) with Penase RT	30	9757.0030



DIPSLIDES

BIOSOLUTE® Dipslides set new standards for fast and reliable microbiological monitoring. They enable semi-quantitative detection and efficient assessment of microbial contamination across industrial, laboratory and environmental applications.

Whether used for direct surface sampling or immersion in liquids, these versatile and easy-to-use dipslides deliver clear and dependable results. Ensure quality, hygiene and process reliability with minimal effort.

Description	PK	Art. no.
Dipslides Total Count (Nutrient)/Total Count (Nutrient with TTC)	20	7898.0020
Dipslides Total Count (TSA with TTC)/Yeast and mold (Rose Bengal with Chloramphenicol)	20	7896.0020
Dipslides Total Count (PCA)/Coliforms (VRBL)	20	7894.0020
Dipslides Total Count (PCA)/Enterobacteria (VRBD)	20	7892.0020
Dipslides Total Count (PCA)/Disinfection Control (TSA with Tween and Lecithin)	20	7890.0020



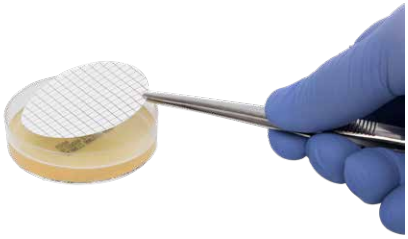
MEMBRANE FILTRATION PLATES, 55 MM

BIOSOLUTE® membrane filtration plates for filtered samples are suitable for use in methods specified by ISO standards and other international guidelines. The 55 mm plates, with a fill volume of 9 ± 1 ml, are supplied in bags containing 6x 5 plates. Products marked RT can be stored at room temperature and have a shelf life of up to 6 months.



Description	PK	Art. no.
Cetrimide Agar RT	30	9254.0030
Chromogenic Coliform Agar (CCA) RT	30	9956.0030
m-CP Agar RT	30	9517.0030
m-Green Agar RT	30	9339.0030
Plate Count Agar (PCA) RT	30	9256.0030
Pseudomonas CN Selective Agar RT	30	9252.0030
R2A Agar RT	30	9161.0030
Slanetz and Bartley Agar RT	30	9134.0030
Tergitol® 7-Lactose-TTC Agar RT	30	9293.0030
TSC Agar RT	30	9324.0030

MEMBRANE PLATE KITS



The high-quality BIOSOLUTE® membrane filtration plates, with a diameter of 55 mm and a fill volume of 9 ml, ensure efficient filtration performance. Combined with precision Sartorius membrane filters, the kit provides a reliable and validated solution for microbiological testing. Each kit contains 100 membrane filtration plates together with the corresponding membrane filters, perfectly matched to meet the highest quality standards.

Certified quality and reliability
- Compliant with ISO 11133:2014
- Tested in an ISO 17025-accredited laboratory
- Filters comply with ISO 7704:2023
- Comprehensive combined Certificates of Analysis, including filter batch documentation

Space and energy efficient
- Space-saving room-temperature storage
- Easy handling thanks to stackable plates in the incubator
- Reduced waste volume due to lower overall weight



Extended shelf life
- Storage at room temperature
- Shelf life of 5 to 7 months, depending on the agar medium used

Description	Membrane type	PK	Art. no.
Chromogenic Coliform Agar (CCA)	Sartorius 114H6Z-47----SC	100	8573.0100
Pseudomonas CN Cetrimid Agar	Sartorius 114H6Z-47----SC	100	8571.0100
Slanetz and Bartley Agar	Sartorius 114H6Z-47----SC	100	8572.0100
TSC Agar (Tryptose Sulfit Cycloserine)	Sartorius 114H6Z-47----SC	100	8574.0100

READY-TO-USE CULTURE MEDIA FOR LEGIONELLA TESTING

BIOSOLUTE® ready-to-use culture media for *Legionella* testing are high-quality, ready-to-use media designed for the precise detection and enumeration of *Legionella* in accordance with ISO 11731:2017. The media offer consistent quality and high selectivity, providing optimal conditions for testing using both the spread plate method and the membrane filtration method.

All ready-to-use Legionella plates intended for membrane filtration applications have been validated in combination with the corresponding Sartorius 130H6Z-47 membrane filter batch (for membrane dispensers), ensuring reliable and validated performance.



PROCESSING AND ENRICHMENT

Description	PK	Art. no.
Legionella Acid Buffer, ready-to-use solution, bottle	500 ml	9994.0500
Legionella Acid Buffer, ready-to-use solution, bottle	1 l	9994.1000
Legionella Acid Buffer, ready-to-use solution, bag	2x 5 l	9993.5000

MEMBRANE FILTRATION AND SPREADING METHOD

Description	PK	Art. no.
Legionella GVPC Selective Agar, prepared plates 90 mm	20	9660.0020
Legionella GVPC Selective Agar, prepared plates 90 mm	120	9660.0120
Legionella GVPC Selective Agar, membrane filtration plates 55 mm	30	9096.0030
Legionella BCYE Selective Agar, with antibiotics prepared plates 90 mm	20	9962.0020
Legionella BCYE Selective Agar, with antibiotics prepared plates 90 mm	120	9962.0120
Legionella BCYE Selective agar with antibiotics, membrane filtration plates 55 mm	30	9092.0030
Legionella BCYE Selective Agar, prepared plates 90 mm	20	9664.0020
Legionella BCYE Selective Agar, membrane filtration plates 55 mm	30	9098.0030
MWY Legionelle Selective Agar, prepared plates 90 mm	20	8731.0020
Validated Sartorius Microsart® e.motion membrane filters (130H6Z-47) black for BIOSOLUTE ready-to-use plates	250	7895.0250
Validated Sartorius Microsart® e.motion membrane filters (130H6Z-47) black for BIOSOLUTE ready-to-use plates	4x 250	7895.1000



CONFIRMATION

Description	PK	Art. no.
Legionella BCYE Agar without Cystein, prepared plates 90 mm	20	9662.0020
Legionella BCYE Selective Agar, prepared plates 90 mm	20	9664.0020
Nutrient Agar DEV, prepared plates 90 mm	20	9394.0020



READY-TO-USE MEDIA IN BOTTLES AND TUBES

BIOSOLUTE® ready-to-use liquid and solid culture media in bottles and tubes are available in a wide range of formats and fill volumes. Bottles containing agar for plate preparation are fitted with microwave-safe plastic caps. Ready-to-use liquid media for pre-enrichment, dilution or sterility testing are supplied with septum-sealed closures. The products can be stored at room temperature and offer a shelf life of 12 to 16 months.



LIQUID CULTURE MEDIA IN TUBES

Description	PK	Art. no.
Brain Heart Infusion Broth (BHI)	20x 10 ml	9492.0010
E.E. Mossel Broth (*Enterobacteriaceae* Enrichment)	20x 9 ml	9440.0009
Fraser Broth ISO	20x 10 ml	9650.0010
Half Fraser Broth ISO	20x 9 ml	9654.0009
Lauryl Sulphate Broth	20x 9 ml	9216.0009
Müller-Kauffmann Tetrathionate Broth Base (MKTTn)	20x 10 ml	9522.0010
Peptone Water, buffered EP with TLH as disinhibitors/neutralisers (3 % Tween® 80, 0.3 % Lecithin, 0.1 % Histidine)	20x 9 ml	8687.0009
Rappaport-Vassiliadis Broth	20x 10 ml	9647.0010
Ringer solution 1/4, ready-to-use solution	20x 9 ml	9545.0009
Tryptone Soy Broth (TSB)	20x 9 ml	9710.0009



SOLID CULTURE MEDIA IN TUBES

Description	PK	Art. no.
DEV Nutrient Agar	20x 15 ml	9396.0015
Iron Sulfite Agar Modified ISO	20x 20 ml	9499.0020
King B Agar	20x 6 ml	9581.0006
Modified Semi-Solid Rappaport Vassiliadis Medium (MSRV)	20x 10 ml	9268.0010
Orange Serum Agar	20x 20 ml	9595.0020
Sabouraud Broth	20x 9 ml	9670.0009
Tryptone Soy Agar (TSA) Ph. Eur.	20x 6 ml	9044.0006
Tryptone Yeast Extract Agar (Water Plate Count Agar)	20x 15 ml	9688.0015



LIQUID CULTURE MEDIA IN BOTTLES

Description	PK	Art. no.
E.E. Mossel Broth (*Enterobacteriaceae* Enrichment)	10x 100 ml	9440.0100
Fluid A	10x 300 ml	9030.0300
Fluid D (Peptone Polysorbate)	10x 300 ml	9032.0300
Half Fraser Broth ISO	10x 225 ml	9654.0225
MacConkey Broth Ph. Eur.	10x 100 ml	9446.0100
Peptone Water, buffered 0.1 % Ph. Eur.	10x 100 ml	8682.0100
Peptone Water, buffered ISO	10x 90 ml	9230.0090
Tryptic Soy Broth (TSB) LT Ph. Eur.	10x 90 ml	9728.0090
Tryptone Soy Broth (TSB)	10x 100 ml	9720.0100

SOLID CULTURE MEDIA IN BOTTLES

Description	PK	Art. no.
DEV Nutrient Agar	10x 200 ml	9396.0200
Kanamycin Esculin Azide Agar	10x 200 ml	9842.0200
Milk Plate Count Agar	10x 200 ml	9480.0200
Plate Count Agar (PCA)	10x 200 ml	9310.0200
TBX Agar (Tryptone Bile X-Glucuronide Agar)	10x200 ml	9880.0200
Tryptone Soy Agar (TSA)	10x 400 ml	9692.0400
Tryptone Yeast Extract Agar (Water Plate Count Agar)	10x 200 ml	9688.0200
Violet Red Bile Lactose Agar (VRBL)	10x 200 ml	9867.0200
VRBD Agar (Violet Red Bile Dextrose Agar)	10x 200 ml	9863.0200
YGC Agar (Yeast Extract Glucose Chloramphenicol Agar)	10x 200 ml	9849.0200



READY-TO-USE MEDIA IN BAGS

BIOSOLUTE® ready-to-use liquid culture media in bags are ideal for applications requiring larger volumes on a regular basis and are available in 2 l, 3 l and 5 l formats. The sterile PVC bags are free from plasticisers and suitable for use in food microbiology testing. They feature two ports: a latex-free polycarbonate injection port for the addition of supplements and a connection port for automated dispensers. The products can be stored at room temperature and offer a shelf life of 12 to 16 months.

Description	PK	Art. no.
Half Fraser Broth ISO	3x 3 l	9653.3000
Lauryl Sulphate Broth	2x 5 l	9237.5000
Maximum Recovery Diluent (MRD)	2x 5 l	9099.5000
Peptone Water, buffered ISO (BPB)	3x 3 l	9240.3000
Tryptone Soy Broth (TSB)	2x 5 l	9740.5000



BIOSOLUTE® – MORE THAN MICROBIOLOGY

BIOSOLUTE® offers a continuously growing portfolio for microbiology, molecular biology, cell culture and histology applications. The range includes biochemicals, buffers, agaroses, as well as kits and reagents for a wide variety of life science laboratory applications. All backed by high quality, reliable availability and excellent value.



DEHYDRATED CULTURE MEDIA, SUPPLEMENTS AND MEDIA COMPONENTS

BIOSOLUTE® dehydrated microbiological culture media are designed to meet the highest quality standards and are available in a comprehensive range for a wide variety of applications, including analytical testing, diagnostics and industrial microbiology. BIOSOLUTE® dehydrated media are suitable for use in validated methods, international standards, microbiological guidelines and ISO procedures. Growth promotion testing is performed in accordance with Ph. Eur. and DIN EN ISO 11133 requirements.

All dehydrated culture media are available in 500 g, 2 kg, 5 kg and 10 kg pack sizes.



DEHYDRATED CULTURE MEDIA

Description	PK	Art. no.
Baird Parker Agar (Base)	500 g	9869.0500
Tryptic Soy Broth (TSB) Ph. Eur.	500 g	9721.0500
Columbia Agar Ph. Eur.	500 g	9770.0500
DEV Nutrient Agar	500 g	9643.0500
Malt Extract Agar	500 g	8287.0500
Malt Extract Broth	500 g	8764.0500
MRS Agar ISO	500 g	8761.0500
MRS Broth	500 g	8733.0500
Nutrient Agar APHA ISO	500 g	8657.0500
Peptone Water, buffered ISO	500 g	8449.0500
Plate Count Agar (PCA)	500 g	8425.0500
Plate Count Skim Milk Agar	500 g	8459.0500
Pseudomonas Selective Agar/Cetrimide Agar Ph. Eur.	500 g	9783.0500
Tryptic Soy Agar (TSA) Ph. Eur.	500 g	9738.0500



SUPPLEMENTS

Description	PK	Art. no.
Eggyolk Tellurite Emulsion 20 %	50 ml	9557.0050
Fraser Listeria Selective Supplement	10 Vials	9442.0010
Glycerol (Propane-1,2,3-triol)	100 ml	8110.0100
Half Fraser Listeria Selective Supplement	10 Vials	9250.0010
MUG (4-Methylumbelliferyl-β-D-glucuronide)	10 Vials	8751.0010



MEDIA COMPONENTS

Description	PK	Art. no.
Agar Bacteriological, European Type	500 g	9972.0500
Malt Extract	500 g	8745.0500
Peptone from Casein (pancreatic digest of casein)	500 g	9754.0500
Soy Peptone, Papain digested (animal-/GVO-free)	500 g	8490.0500
Tryptone from Casein (tryptic digest of casein)	500 g	8028.0500
Yeast Extract	500 g	9263. 0500

GRANULATED CULTURE MEDIA

BIOSOLUTE® granulated culture media simplify day-to-day work in the microbiological laboratory. The special granule form ensures clean handling with minimal dust formation and enables simple, precise dosing.

Whether in quality control, research or routine diagnostics – BIOSOLUTE® granulated culture media help to optimise workflows and achieve consistent results.

Your benefits:
- Minimal dust formation during handling
- Rapid and uniform dissolution
- Simple and precise dosing
- Reproducible and reliable results

Description	PK	Art. no.
DEV Nutrient Agar	500 g	9683.0500
Differential Reinforced Clostridial Medium (DRCM)	500 g	9796.0500
Enterobacteriaceae Enrichment Broth Mossel (EE Broth)	500 g	9540.0500
Kanamycin Esculin Azide Agar Base (KAA Agar)	500 g	8948.0500
MacConkey Broth Ph. Eur.	500 g	8744.0500
Malt Extract Agar	500 g	8729.0500
Maximum Recovery Diluent	500 g	8723.0500
Milk Plate Count Agar	500 g	8446.0500
MRS Agar (de Man Rogosa Sharpe Agar)	500 g	8721.0500
Peptone water, buffered ISO	500 g	8456.0500
Plate Count Agar (PCA)	500 g	8438.0500
Sabouraud 4 % Dextrose Agar Ph. Eur.	500 g	8197.0500
Slanetz and Bartley Agar (base) ISO	500 g	8194.0500
Tryptic Soy Agar (TSA)	500 g	8069.0500
Tryptone Soy Broth (TSB)	500 g	8064.0500
VRBD Agar (Violet Red Bile Dextrose Agar) Ph. Eur.	500 g	7887.0500
Wort broth (base)	500 g	7792.0500
Yeast Extract	500 g	9222.0500
Yeast Extract Agar	500 g	9218.0500
YGC Agar (Yeast Extract Glucose Chloramphenicol Agar)	500 g	7596.0500



RINGER SOLUTION TABLETS

Ringer solution is a physiological saline solution and is used in microbiology as an isotonic, non-toxic buffer to maintain the osmolarity of microorganisms.

Using the tablet form is a sustainable option to ensure consistent quality, reduce errors and to save time and packaging material.

Description	PK	Art. no.
Ringer solution tablets for 500 ml solution	100	8282.0100





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