MICROBIOLOGY
DEHYDRATED CULTURE MEDIA
& SUPPLEMENTS
NEW

With a wide variety of first-class products, CHEMSOLUTE® offers you the perfect choice for your special needs in microbiology.
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</table>
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.
DEHYDRATED CULTURE MEDIA
**BAIRD PARKER AGAR (BASE)**

Solid selective culture medium for the screening of Staphylococci from a variety of samples according to Pharmacopoeial Harmonized Methods, ISO and DIN standards.

**Formulation (g/l):**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tryptone</td>
<td>10.0</td>
</tr>
<tr>
<td>Sodium pyruvate</td>
<td>10.0</td>
</tr>
<tr>
<td>Glycine</td>
<td>12.0</td>
</tr>
<tr>
<td>Meat extract</td>
<td>5.0</td>
</tr>
<tr>
<td>Lithium chloride</td>
<td>5.0</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>1.0</td>
</tr>
<tr>
<td>Agar</td>
<td>17.0</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9869.0500</td>
</tr>
</tbody>
</table>

**BLOOD AGAR (BASE)**

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

**Formulation (g/l):**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meat extract</td>
<td>10.00</td>
</tr>
<tr>
<td>Tryptone</td>
<td>10.00</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.00</td>
</tr>
<tr>
<td>Agar</td>
<td>15.00</td>
</tr>
</tbody>
</table>

**Directions:** Suspend 40 g of powder in 950 ml of distilled water.

Final pH (25 °C) 7.3 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9850.0500</td>
</tr>
</tbody>
</table>

**BRAIN HEART INFUSION BROTH (BHI BROTH)**

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

**Formulation (g/l):**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brain extract</td>
<td>12.5</td>
</tr>
<tr>
<td>Heart extract</td>
<td>5.0</td>
</tr>
<tr>
<td>Peptone</td>
<td>10.0</td>
</tr>
<tr>
<td>Dextrose</td>
<td>2.0</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.0</td>
</tr>
<tr>
<td>di-Sodium phosphate</td>
<td>2.5</td>
</tr>
</tbody>
</table>

**Directions:** Dissolve 37 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.4 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9264.0500</td>
</tr>
</tbody>
</table>
BRILLIANT GREEN BILE BROTH

Liquid medium used for the detection of coliforms in water according to APHA and ISO standards.

**Formulation (g/l):**
- Bile: 20.000
- Lactose: 10.000
- Peptone: 10.000
- Brilliant green: 0.013

**Directions:**
Suspend 40 g of powder in 1 l of distilled water.

**Final pH (25 °C):** 7.2 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9835.0500</td>
</tr>
</tbody>
</table>

CASEIN PEPTONE LECITHIN POLYSORBATE BROTH (BASE)

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

**Formulation (g/l):**
- Casein peptone: 20.00
- Soy lecithin: 5.00

**Directions:**
Suspend 25 g of powder in 960 ml of distilled water.

**Final pH (25 °C):** 7.3 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9717.0500</td>
</tr>
</tbody>
</table>

CETRIMIDE AGAR PH. EUR.

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

**Formulation (g/l):**
- Gelatin peptone: 20.00
- Magnesium chloride: 1.40
- Potassium sulphate: 10.00
- Cetyltrimethylammonium bromide: 0.30
- Agar: 13.60

**Directions:**
Suspend 45.3 g of powder in 1 l of distilled water.

**Supplement:**
Glycerol

**Final pH (25 °C):** 7.2 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9783.0500</td>
</tr>
</tbody>
</table>
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 Harmonized Methods.

Formulation (g/l):
- Casein peptone: 10.00
- Meat peptone: 5.00
- Heart peptone: 3.00
- Yeast extract: 5.00
- Maize starch: 1.00
- Sodium chloride: 5.00
- Agar: 15.00

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

Final pH 7.3 ± 0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9770.0500</td>
</tr>
</tbody>
</table>

DEV NUTRIENT AGAR

Solid general purpose medium according to german regulation for food and water samples.

Formulation (g/l):
- Meat extract: 10.00
- Meat peptone: 10.00
- Sodium chloride: 5.00
- Agar: 18.00

Directions:
Suspend 43 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.3 ± 0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9643.0500</td>
</tr>
</tbody>
</table>

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 16000-17:2008.

Formulation (g/l):
- Peptone: 5.000
- Dextrose: 10.000
- Potassium dihydrogen phosphate: 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

Final pH (25 °C) 5.6 ± 0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9685.0500</td>
</tr>
</tbody>
</table>

Glycerol
**DRBC AGAR (DICHLORAN ROSE BENGAL CHLORAMPHENICOL AGAR)**

Selective medium for the enumeration of moulds and yeasts in foodstuff according to ISO standards.

**Formulation (g/l):**
- Mycological peptone: 5.000
- Dextrose: 10.000
- Potassium dihydrogen phosphate: 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

**ENTEROBACTERIACEAE ENRICHMENT BROTH MOSSEL (EE BROTH)**

Liquid culture medium used for the enrichment of enterobacteria according to Pharmacopéal Harmonized Methods and ISO standards.

**Formulation (g/l):**
- Gelatin peptone: 10.000
- Dextrose: 5.000
- Ox bile: 20.000
- Di-Sodium phosphate dihydrate: 8.000
- Potassium dihydrogen phosphate: 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

**FRASER BROTH (BASE)**

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

**Formulation (g/l):**
- Soy peptone: 5.000
- Tryptone: 5.000
- Meat extract: 5.000
- Yeast extract: 5.000
- Sodium chloride: 20.000
- Esculin: 1.000
- Di-Sodium phosphate: 9.600
- Potassium dihydrogen phosphate: 1.350
- Lithium chloride: 3.000

**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
DEHYDRATED CULTURE MEDIA

LAURYL SULPHATE BROTH

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

Formulation (g/l):
- Tryptose 20.00
- Sodium lauryl sulphate 0.10
- Lactose 5.00
- di-Potassium phosphate 2.75
- Potassium dihydrogen phosphate 2.75
- Sodium chloride 5.00

Final pH (25 °C) 6.8 ±0.2

Directions:
- Dissolve 35.6 g of powder in 1 l of distilled water.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8848.0500</td>
</tr>
</tbody>
</table>

LB AGAR ACC. TO LENNOX

Standard agar with low salt content, ideal for the cultivation of recombinant *Escherichia coli* strains.

Formulation (g/l):
- Tryptone 10.0
- Yeast extract 5.0
- Sodium chloride 5.0
- Agar bacteriological 15.0

Final pH (25 °C) 7.0 ±0.2

Directions:
- Suspend 35 g of powder in 1 l of distilled water.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8830.0500</td>
</tr>
</tbody>
</table>

LB AGAR ACC. TO MILLER

Standard agar, ideal for growing and maintaining *Escherichia coli* strains used in molecular microbiology procedures.

Formulation (g/l):
- Tryptone 10.0
- Yeast extract 5.0
- Sodium chloride 10.0
- Agar bacteriological 15.0

Final pH (25 °C) 7.0 ±0.2

Directions:
- Suspend 40 g of powder in 1 l of distilled water.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8880.0500</td>
</tr>
</tbody>
</table>
LB BROTH ACC. TO LENNOX

Standard medium with low salt content, ideal for growing and maintaining recombinant *Escherichia coli* strains.

**Formulation (g/l):**
- Tryptone: 10.0
- Yeast extract: 5.0
- Sodium chloride: 5.0

**Directions:**
Suspend 20 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.0 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8817.0500</td>
</tr>
</tbody>
</table>

LB BROTH ACC. TO MILLER

Standard medium for the cultivation of *Escherichia coli*, high-salt content.

**Formulation (g/l):**
- Tryptone: 10.0
- Yeast extract: 5.0
- Sodium chloride: 10.0

**Directions:**
Suspend 25 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.0 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8885.0500</td>
</tr>
</tbody>
</table>

LEGIONELLA BCYE AGAR (BASE)

Solid medium used for the detection, isolation and enumeration of *Legionella* from water according to ISO standards 11731:2017.

**Formulation (g/l):**
- Activated charcoal: 2.00
- Yeast extract: 10.00
- Agar: 15.00

**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)

Final pH (25 °C) 6.8 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8811.0500</td>
</tr>
</tbody>
</table>
MACCONKEY AGAR PH. EUR.

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

**Formulation (g/l):**
- Pancreatic digest of gelatin: 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

MACCONKEY BROTH PH. EUR.

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

**Formulation (g/l):**
- Pancreatic digest of gelatin: 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

MALT EXTRACT BROTH

Liquid medium for the cultivation of yeasts and moulds.

**Formulation (g/l):**
- Malt extract: 17.00

**Directions:**
- 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 Harmonized Methods and ISO standards.

Formulation (g/l):

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beef extract</td>
<td>1.000</td>
</tr>
<tr>
<td>Pancreatic digest of casein</td>
<td>5.000</td>
</tr>
<tr>
<td>Peptic digest of meat</td>
<td>5.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>75.000</td>
</tr>
<tr>
<td>D-Mannitol</td>
<td>10.000</td>
</tr>
<tr>
<td>Phenol red</td>
<td>0.025</td>
</tr>
<tr>
<td>Agar</td>
<td>15.000</td>
</tr>
</tbody>
</table>

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

Final pH (25 °C) 7.4 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8743.0500</td>
</tr>
</tbody>
</table>

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.

Formulation (g/l):

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enzymatic digest of casein</td>
<td>10.00</td>
</tr>
<tr>
<td>Meat extract</td>
<td>10.00</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>4.00</td>
</tr>
<tr>
<td>D(+)-Glucose</td>
<td>20.00</td>
</tr>
<tr>
<td>Sodium acetate</td>
<td>5.00</td>
</tr>
<tr>
<td>tri-Ammonium citrate</td>
<td>2.00</td>
</tr>
<tr>
<td>Magnesium sulphate heptahydrate</td>
<td>0.20</td>
</tr>
<tr>
<td>Manganese sulphate tetrahydrate</td>
<td>0.05</td>
</tr>
<tr>
<td>di-Potassium phosphate</td>
<td>2.00</td>
</tr>
<tr>
<td>Polysorbate 80</td>
<td>1.08</td>
</tr>
<tr>
<td>Agar</td>
<td>14.00</td>
</tr>
</tbody>
</table>

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

Final pH (25 °C) 5.7 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8761.0500</td>
</tr>
</tbody>
</table>
MRS BROTH

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

Formulation (g/l):
- Peptone proteose: 10.00
- Meat extract: 8.00
- Yeast extract: 4.00
- D(+)-Glucose: 20.00
- Sodium acetate: 5.00
- tri-Ammonium citrate: 2.00
- Magnesium sulphate: 0.20
- Manganese sulphate: 0.05
- di-Potassium 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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8733.0500</td>
</tr>
</tbody>
</table>

MYP AGAR (MANNITOL EGG YOLK POLYMYXIN AGAR) (BASE)

Selective solid medium according to Mossel for the isolation and identification of Bacillus cereus from food samples according to ISO standards.

Formulation (g/l):
- Peptone: 10.000
- Mannitol: 10.000
- Sodium chloride: 10.000
- Meat extract: 1.000
- Phenol red: 0.025
- Agar: 15.000

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)

Final pH (25 °C) 7.2 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8710.0500</td>
</tr>
</tbody>
</table>

NUTRIENT AGAR APHA, ISO

Solid culture medium for general purpose use according to ISO standards and APHA.

Formulation (g/l):
- Peptone: 5.00
- Meat extract: 3.00
- Agar: 15.00

Directions: Suspend 23 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.0 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8657.0500</td>
</tr>
</tbody>
</table>
**ORANGE SERUM AGAR**

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

**Formulation (g/l):**
- Tryptone 10.00
- Yeast extract 3.00
- Orange serum 5.00
- Dextrose 4.00
- di-Potassium phosphate 3.00
- Agar 17.00

**Directions:**
Suspend 42 g of powder in 1 l of distilled water.

**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

**Supplement:**
Oxford Agar Selective Supplement (Art. no. 9594)

**Final pH (25 °C)** 5.5 ± 0.2

**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.

**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

**Directions:**
Suspend 58.5 g of powder in 1 l of distilled water.

**Supplement:**
Oxford Agar Selective Supplement (Art. no. 9594)

**Final pH (25 °C)** 7.0 ± 0.2

**Quantity** | **Packaging material** | **Art. no.**
--- | --- | ---
500 g | Plastic bottle | 8546.0500

**Quantity** | **Packaging material** | **Art. no.**
--- | --- | ---
500 g | Plastic bottle | 8519.0500
DEHYDRATED CULTURE MEDIA

**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.

**Formulation (g/l):**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tryptone</td>
<td>23.00</td>
</tr>
<tr>
<td>Lithium chloride</td>
<td>15.00</td>
</tr>
<tr>
<td>Mannitol</td>
<td>10.00</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.00</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>3.00</td>
</tr>
<tr>
<td>Starch</td>
<td>1.00</td>
</tr>
<tr>
<td>Esulin</td>
<td>0.80</td>
</tr>
<tr>
<td>Ammonium iron(III) citrate</td>
<td>0.50</td>
</tr>
<tr>
<td>Dextrose</td>
<td>0.50</td>
</tr>
<tr>
<td>Phenol red</td>
<td>0.08</td>
</tr>
<tr>
<td>Agar</td>
<td>13.00</td>
</tr>
</tbody>
</table>

**Directions:**

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

**Supplement:**

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

**Formulation (g/l):**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casein peptone</td>
<td>5.00</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>2.50</td>
</tr>
<tr>
<td>Dextrose</td>
<td>1.00</td>
</tr>
<tr>
<td>Agar</td>
<td>15.00</td>
</tr>
</tbody>
</table>

**Directions:**

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

**Final pH (25 °C) 7.2 ±0.2**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8429.0500</td>
</tr>
</tbody>
</table>

**PEPTONE WATER, BUFFERED ISO**

Liquid medium for the dilution and non-selective pre-enrichment from food samples.

**Formulation (g/l):**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacteriological peptone</td>
<td>10.00</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.00</td>
</tr>
<tr>
<td>di-Sodium hydrogen phosphate (anhydrous)</td>
<td>3.5*</td>
</tr>
<tr>
<td>Potassium phosphate</td>
<td>1.50</td>
</tr>
</tbody>
</table>

**Directions:**

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

**Final pH (25 °C) 7.0 ±0.2**

* Equivalent to 9.0 g of disodium hydrogen phosphate dodecahydrate

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8449.0500</td>
</tr>
</tbody>
</table>

**PLATE COUNT AGAR (PCA)**

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

**Formulation (g/l):**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casein peptone</td>
<td>5.0</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>2.5</td>
</tr>
<tr>
<td>Dextrose</td>
<td>1.0</td>
</tr>
<tr>
<td>Agar</td>
<td>15.0</td>
</tr>
</tbody>
</table>

**Directions:**

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

**Final pH (25 °C) 7.0 ±0.2**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8425.0500</td>
</tr>
</tbody>
</table>
PLATE COUNT SKIM MILK AGAR (PCA)

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

Formulation (g/l):
- **Tryptone**: 5.00
- **Yeast extract**: 2.50
- **Skim milk**: 1.00
- **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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8459.0500</td>
</tr>
</tbody>
</table>

POTATO DEXTROSE AGAR PH. EUR.

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

Formulation (g/l):
- **Potato peptone**: 4.0* (Equivalent to 200 g infusion from potatoes)
- **Glucose**: 20.0
- **Agar**: 15.0

Directions:
- Suspend 39 g of powder in 1 l of distilled water.

Final pH (25 °C) 5.6 ±0.2

* Equivalent to 200 g infusion from potatoes

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8992.0500</td>
</tr>
</tbody>
</table>

R2A AGAR PH. EUR.

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

Formulation (g/l):
- **Proteose peptone**: 0.500
- **Casein hydrolysate (Tryptone)**: 0.500
- **Yeast extract**: 0.500
- **D(+)-Glucose**: 0.500
- **Starch**: 0.500
- **Sodium pyruvate**: 0.300
- **di-Potassium 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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8267.0500</td>
</tr>
</tbody>
</table>
DEHYDRATED CULTURE MEDIA

RAPPAPORT VASSILIADIS BROTH

Liquid medium for the selective enrichment of *Salmonella* in foodstuff and other samples, according to ISO and FIL-IDF standards.

**Formulation (g/l):**
- Soy peptone: 4.500
- Sodium chloride: 7.200
- Potassium dihydrogen phosphate: 1.260
- Di-Potassium phosphate: 0.180
- Magnesium chloride (anhydrous): 13.40
- 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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8229.0500</td>
</tr>
</tbody>
</table>

REINFORCED CLOSTRIDIAL MEDIUM (RCM) PH. EUR.

Liquid medium for the cultivation and enumeration of clostridia by the MPN technique according to Pharmacopoeial Harmonized Methods and ISO standards.

**Formulation (g/l):**
- Casein peptone: 10.0
- Yeast extract: 3.0
- Meat extract: 10.0
- Dextrose: 5.0
- Sodium chloride: 5.0
- Sodium acetate: 3.0
- Soluble starch: 1.0
- Cysteine: 0.5
- Agar: 0.5

**Directions:** Suspend 38 g of powder in 1 l of distilled water.

**Final pH (25 °C):** 6.8 ± 0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9749.0500</td>
</tr>
</tbody>
</table>

SABOURAUD 2% GLUCOSE BROTH PH. EUR.

Liquid medium for fungal isolation according to Pharmacopeial Harmonized Methods.

**Formulation (g/l):**
- Casein peptone: 5.0
- Meat peptone: 5.0
- D(+)-Glucose: 20.0

**Directions:** Dissolve 30 g of powder in 1 l of distilled water.

**Final pH (25 °C):** 5.6 ± 0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8159.0500</td>
</tr>
</tbody>
</table>
**SABOURAUD 4% DEXTROSE AGAR PH. EUR.**

Solid medium for the cultivation and enumeration of yeasts and fungi according to Pharmacopeial Harmonized Methods and ISO standards.

**Formulation (g/l):**

- D(+)-Glucose: 40.00
- Meat peptone: 5.00
- Casein peptone: 5.00
- Agar: 15.00

**Directions:**

- Suspend 65 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 | 8135.0500

**SLANETZ AND BARTLEY AGAR (BASE)**

Solid differential and selective medium for the detection and enumeration of enterococci according to ISO standards.

**Formulation (g/l):**

- Tryptose: 20.0
- Yeast extract: 5.0
- Dextrose: 2.0
- di-Potassium phosphate: 4.0
- Sodium azide: 0.4
- Agar: 12.0

**Directions:**

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

**Supplements:**

- 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

**STANDARD 1 NUTRIENT AGAR**

Solid medium for the cultivation of fastidious bacteria.

**Formulation (g/l):**

- Casein peptone: 15.0
- Yeast extract: 3.0
- Sodium chloride: 6.0
- 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
DEHYDRATED CULTURE MEDIA

STANDARD 1 NUTRIENT BROTH

Liquid medium for cultivation of fastidious bacteria.

Formulation (g/l):

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

Directions:

Dissolve 25 g of powder in 1 l of distilled water.

Final pH (25 °C) 7.5 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8180.0500</td>
</tr>
</tbody>
</table>

TERRIFIC BROTH

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

Formulation (g/l):

- Yeast extract: 24.0
- Tryptone: 12.0
- di-Potassium phosphate: 12.54
- potassium dihydrogen phosphate: 2.31

Directions:

Dissolve 50.8 g of powder in 1 l of distilled water.

Supplement:

Glycerol

Final pH (25 °C) 7.2 ±0.2

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8077.0500</td>
</tr>
</tbody>
</table>

TRIPLE SUGAR IRON AGAR

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

Formulation (g/l):

- Peptone: 20.000
- Meat extract: 3.000
- Yeast extract: 3.000
- Lactose: 10.000
- Sucrose: 10.000
- 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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9661.0500</td>
</tr>
</tbody>
</table>
TRYPTIC SOY AGAR (TSA) PH. EUR.

General purpose medium containing animal and plant peptone according to Pharmacopoeial Harmonized Methods and ISO standards.

**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

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.

**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 in 1 l of powder of distilled water.

**Final pH (25 °C):** 7.3 ±0.2

**Quantity** | **Packaging material** | **Art. no.**
--- | --- | ---
500 g | Plastic bottle | 9775.0500

TRYPTIC SOY BROTH (TSB) PH. EUR.

Liquid high nutrient medium for general purpose use according to Pharmacopoeial Harmonized Methods.

**Formulation (g/l):**
- Casein peptone: 17.0
- Soy peptone: 3.0
- Sodium chloride: 5.0
- di-Potassium phosphate: 2.5
- Dextrose: 2.5

**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
TSC AGAR (TRYPTOSE SULPHITE CYCLOSERINE AGAR)

Solid medium for the isolation and differentiation of *Clostridium perfringens* according to ISO standards and other regulations.

**Formulation (g/l):**
- Tryptone: 15.00
- Soy peptone: 5.00
- Yeast extract: 5.00
- Sodium disulphite: 1.00
- Ammonium iron(III) citrate: 1.00
- Agar: 18.00

**Directions:** Dissolve 45 g of powder in 1 l of distilled water.

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

**Final pH (25 °C):** 7.6 ±0.2

**Quantity** | **Packaging material** | **Art. no.**
---|---|---
500 g | Plastic bottle | 8032.0500

VRB 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 and ISO standards.

**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

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

Selective solid medium for the enumeration of enterobacteria according to Pharmacopeial Harmonized Methods and ISO standards.

**Formulation (g/l):**
- Yeast extract: 3.000
- Pancreatic digest of gelatin: 7.000
- Bile salts: 1.500
- D(+)-Glucose monohydrate: 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
**WORT AGAR**

Solid medium for the general cultivation of yeasts.

**Formulation (g/l):**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malt extract</td>
<td>15.00</td>
</tr>
<tr>
<td>Casein peptone</td>
<td>0.75</td>
</tr>
<tr>
<td>Maltose</td>
<td>12.75</td>
</tr>
<tr>
<td>Dextrin</td>
<td>2.75</td>
</tr>
<tr>
<td>di-Potassium hydrogen phosphate</td>
<td>1.00</td>
</tr>
<tr>
<td>Ammonium chloride</td>
<td>1.00</td>
</tr>
<tr>
<td>Agar</td>
<td>17.00</td>
</tr>
</tbody>
</table>

**Directions:** Suspend 50.25 g of powder in 1 l of distilled water.

**Supplement:** Glycerol

**Final pH (25 °C) 4.8 ±0.2**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>7772.0500</td>
</tr>
</tbody>
</table>

**WORT BROTH**

Liquid medium for the production of yeast suspensions.

**Formulation (g/l):**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malt extract</td>
<td>15.00</td>
</tr>
<tr>
<td>Casein peptone</td>
<td>1.00</td>
</tr>
<tr>
<td>Maltose</td>
<td>12.50</td>
</tr>
<tr>
<td>Dextrin</td>
<td>2.50</td>
</tr>
<tr>
<td>Potassium dihydrogen phosphate</td>
<td>1.00</td>
</tr>
<tr>
<td>Ammonium chloride</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**Directions:** Suspend 33 g of powder in 1 l of distilled water.

**Formulation (g/l):**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malt extract</td>
<td>15.00</td>
</tr>
<tr>
<td>Casein peptone</td>
<td>1.00</td>
</tr>
<tr>
<td>Maltose</td>
<td>12.50</td>
</tr>
<tr>
<td>Dextrin</td>
<td>2.50</td>
</tr>
<tr>
<td>Potassium dihydrogen phosphate</td>
<td>1.00</td>
</tr>
<tr>
<td>Ammonium chloride</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**Directions:** Suspend 55.43 g of powder in 1 l of distilled water.

**Final pH (25 °C) 4.8 ±0.2**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>7759.0500</td>
</tr>
</tbody>
</table>

**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 standards.

**Formulation (g/l):**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylose</td>
<td>3.750</td>
</tr>
<tr>
<td>L-Lysine</td>
<td>5.000</td>
</tr>
<tr>
<td>Lactose</td>
<td>7.500</td>
</tr>
<tr>
<td>Sucrose</td>
<td>7.500</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.000</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>3.000</td>
</tr>
<tr>
<td>Phenol red</td>
<td>0.080</td>
</tr>
<tr>
<td>Sodium deoxycholate</td>
<td>1.000</td>
</tr>
<tr>
<td>Sodium thiosulphate</td>
<td>6.800</td>
</tr>
<tr>
<td>Ammonium iron(III) citrate</td>
<td>0.800</td>
</tr>
<tr>
<td>Agar</td>
<td>15.000</td>
</tr>
</tbody>
</table>

**Directions:** Suspend 55.43 g of powder in 1 l of distilled water.

**Final pH (25 °C) 7.4 ±0.2**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>7649.0500</td>
</tr>
</tbody>
</table>
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.

**Formulation (g/l):**
- Glucose 20.0
- Yeast extract 5.0
- Chloramphenicol 0.1
- Agar 15.0

**Directions:**
Suspend 40 g of powder in 1 l of distilled water.

Final pH (25 °C) 6.6 ±0.2

<table>
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<tr>
<th>Quantity</th>
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<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>7533.0500</td>
</tr>
</tbody>
</table>

YPD BROTH

Standard medium for the cultivation of *Saccharomyces cerevisiae* and other yeasts in molecular biology procedures.

**Formulation (g/l):**
- Peptone 20.0
- Dextrose 20.0
- Yeast extract 10.0

**Directions:**
Suspend 50 g of powder in 1 l of distilled water.

Final pH (25 °C) 6.5 ±0.2

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>7556.0500</td>
</tr>
</tbody>
</table>

2X YT BROTH

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

**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

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>7579.0500</td>
</tr>
</tbody>
</table>
CLOSTRIDUM PERFRINGENS SUPPLEMENT

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

**Formulation (g/vial):**

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

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

**Quantity | Packaging material | Art. no.**
--- | --- | ---
10 vials | Glass vial | 9716.0010

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).

**Quantity | Packaging material | Art. no.**
--- | --- | ---
10 vials | Glass vial | 9795.0010

EGG YOLK EMULSION 20%

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

**Formulation (g/l):**

- Egg yolk 200 ml
- Sterile water 800 ml

**Quantity | Packaging material | Art. no.**
--- | --- | ---
100 ml | Glass bottle | 9578.0100

EGG YOLK TELLURITE EMULSION 20%

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

**Formulation (g/l):**

- Egg yolk 200 ml
- Potassium tellurite 2.10
- Sodium chloride 4.25
- Sterile water 800 ml

**Quantity | Packaging material | Art. no.**
--- | --- | ---
100 ml | Glass bottle | 9557.0100
FRASER LISTERIA SELECTIVE SUPPLEMENT

Sterile selective supplement for the isolation of Listeria species.

**Formulation (g/vial):**
- Sodium nalidixate: 0.0100
- Acriflavine: 0.0125
- Ammonium iron(III) citrate: 0.2500

**Directions:**
Each vial is sufficient for 500 ml of medium base (Art. no. 9439).

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 vials</td>
<td>Glass vial</td>
<td>9442.0010</td>
</tr>
</tbody>
</table>

HALF FRASER LISTERIA SELECTIVE SUPPLEMENT

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

**Formulation (g/vial):**
- Sodium nalidixate: 0.0050
- Acriflavine: 0.0062
- Ammonium iron(III) citrate: 0.2500

**Directions:**
Each vial is sufficient for 500 ml of medium base (Art. no. 9439).

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 vials</td>
<td>Glass vial</td>
<td>9250.0010</td>
</tr>
</tbody>
</table>

LEGIONELLA BCYE GROWTH SUPPLEMENT

Growth supplement to complete the BCYE medium base.

**Formulation (g/vial):**
- ACES buffer: 5.000
- Potassium hydroxide: 1.400
- Iron(III) pyrophosphate: 0.125
- Potassium α-ketoglutarate: 0.500
- L-Cysteine hydrochloride: 0.200

**Directions:**
Each vial is sufficient for 500 ml of medium base (Art. no. 8811). Content: 5x freeze-dried supplement + 5x sterile solvent.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 vials</td>
<td>Glass vial</td>
<td>8861.0005</td>
</tr>
</tbody>
</table>

LEGIONELLA GVPC SELECTIVE SUPPLEMENT

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

**Formulation (g/vial):**
- Glycine: 1.5000
- Vanomycin: 0.0005
- Polymycin B sulphate: 40000 IU
- Cycloheximide: 0.0400

**Directions:**
Each vial is sufficient for 500 ml of medium base (Art. no. 8811).

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 vials</td>
<td>Glass vial</td>
<td>8820.0010</td>
</tr>
</tbody>
</table>
MUG (4-METHYLUMBELLIFERYL-β-D-GLUCURONIDE)

Sterile supplement for the detection of *Escherichia coli*.

**Formulation (g/vial):**

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Methylumbelliferyl-β-D-glucuronide</td>
<td>0.050</td>
</tr>
</tbody>
</table>

**Directions:**

Each vial is sufficient for 500 ml of medium base.

**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):**

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cycloheximide</td>
<td>0.2000</td>
</tr>
<tr>
<td>Colistin sulphate</td>
<td>0.0100</td>
</tr>
<tr>
<td>Acriflavine</td>
<td>0.0025</td>
</tr>
<tr>
<td>Cefotetan</td>
<td>0.0010</td>
</tr>
<tr>
<td>Phosphomycin sodium salt</td>
<td>0.0050</td>
</tr>
</tbody>
</table>

**Directions:**

Each vial is sufficient for 500 ml of medium base (Art. no. 8519).

**Quantity**  | **Packaging material**  | **Art. no.**
---           | ---                     | ---
10 vials     | Glass vial              | 9594.0010

PALCAM LISTERIA AGAR SELECTIVE SUPPLEMENT

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

**Formulation (g/vial):**

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymyxin B</td>
<td>0.0050</td>
</tr>
<tr>
<td>Acriflavine</td>
<td>0.0025</td>
</tr>
<tr>
<td>Ceftazidime</td>
<td>0.0100</td>
</tr>
</tbody>
</table>

**Directions:**

Each vial is sufficient for 500 ml of medium base (Art. no. 8429).

**Quantity**  | **Packaging material**  | **Art. no.**
---           | ---                     | ---
10 vials     | Glass vial              | 8459.0010

POLMYXIN B SELECTIVE SUPPLEMENT

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

**Formulation (IU/vial):**

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration (IU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymyxin B sulphate</td>
<td>50000</td>
</tr>
<tr>
<td>Excipient</td>
<td>(sufficient amount)</td>
</tr>
</tbody>
</table>

**Directions:**

Each vial is sufficient for 500 ml of medium base (Art. no. 8710).

**Quantity**  | **Packaging material**  | **Art. no.**
---           | ---                     | ---
10 vials     | Glass vial              | 8477.0010
TTC SOLUTION 1%, STERILE

Indicator, added to many microbiological culture media.

**Formulation (g/l):**

2,3,5-Triphenyl tetrazolium chloride 10.0  
Sterile water 1000 ml

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 ml</td>
<td>Glass bottle</td>
<td>8055.0100</td>
</tr>
</tbody>
</table>

**Individual solutions for you**

How can we help you? Do you miss certain culture media or supplements? We will be happy to advise you personally and competently. Our qualified experts are at your disposal in the field and in the office. Please don't hesitate to contact your personal expert directly or to send your questions and suggestions to sales@thgeyer.com. We are happy to provide you with individual solutions.
AGAR BACTERIOLOGICAL, EUROPEAN TYPE

- Particle size 95 % over sieve 60
- Gel strength (1.5 %, Nikan) 800–1100 g/cm²
- Melting point (1.5 %) 85 ±5 °C
- Gelling point (1.5 %) 35 ±3 °C
- Transparency (1.5 %) max. 12 NTU
- Absorbance at 450 nm (colorimetric) max. 0.200
- pH (1.5 % solution) before autoclaving 7.0 ±0.4
- pH (1.5 % solution) after autoclaving 6.5 ±0.4
- Water max. 10 %
- Ash max. 4.5 %
- Arsenic (As) max. 3 ppm
- Lead (Pb) max. 5 ppm
- Mercury (Hg) max. 1 ppm
- Cadmium (Cd) max. 1 ppm
- Heavy metals total max. 20 ppm

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9914.0500</td>
</tr>
</tbody>
</table>

CASEIN PEPTONE (PANCREATIC DIGEST OF CASEIN)

- Amino nitrogen (AN) min. 3.9 %
- Total nitrogen (TN) min. 10 %
- Loss on drying max. 6 %
- Ash max. 15 %
- pH (2 % solution) 6.5–7.5
- Standard plate count max. 5000 col/g
- Molds and yeast max. 100 col/g

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9711.0500</td>
</tr>
</tbody>
</table>

YEAST EXTRACT

- Amino nitrogen (AN) min. 4.5 %
- Total nitrogen (N) min. 10 %
- Loss on drying max. 6 %
- Sodium chloride (NaCl) max. 0.5 %
- pH (2 % solution) 6.0–7.2
- Standard plate count max. 5000 col/g
- Molds and yeast max. 50 col/g

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>9257.0500</td>
</tr>
</tbody>
</table>

TRYPTONE (PANCREATIC DIGEST OF CASEIN)

- Amino nitrogen (AN) min. 3.9 %
- Total nitrogen (TN) min. 10 %
- Loss on drying max. 6 %
- Ash max. 15.0 %
- pH (2 % solution) 6.5–7.5
- Standard plate count max. 5000 col/g
- Molds and yeast max. 100 col/g

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Packaging material</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g</td>
<td>Plastic bottle</td>
<td>8096.0500</td>
</tr>
</tbody>
</table>
## APPLICATION AREAS OF THE MEDIA

<table>
<thead>
<tr>
<th>Art. no.</th>
<th>Product name</th>
<th>Water analysis</th>
<th>Food analysis</th>
<th>Pharma/Cosmetics</th>
<th>Molecular Biology</th>
</tr>
</thead>
<tbody>
<tr>
<td>9869</td>
<td>Baird Parker Agar (base)</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9850</td>
<td>Blood Agar (base)</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9264</td>
<td>Brain Heart Infusion Broth (BHI Broth)</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9835</td>
<td>Brilliant Green Bile Broth</td>
<td>X</td>
<td></td>
<td>X</td>
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</tr>
<tr>
<td>9717</td>
<td>Casein Peptone Lecithin Polysorbate Broth (base)</td>
<td></td>
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<tr>
<td>9783</td>
<td>Cetrimide Agar Ph. Eur.</td>
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<td></td>
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</tr>
<tr>
<td>9770</td>
<td>Columbia Agar Ph. Eur.</td>
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<tr>
<td>9643</td>
<td>DEV Nutrient Agar</td>
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<tr>
<td>9685</td>
<td>DG 18 Agar (Dichloran Glycerol Chloramphenicol Agar)</td>
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<tr>
<td>9677</td>
<td>DRBC Agar (Dichloran Rose Bengal Chloramphenicol Agar)</td>
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<tr>
<td>9571</td>
<td>Enterobacteriaceae Enrichment Broth Mossel (EE Broth)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>9459</td>
<td>Fraser Broth (base)</td>
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<tr>
<td>8848</td>
<td>Lauryl Sulphate Broth</td>
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<tr>
<td>8830</td>
<td>LB Agar acc. to Lennox</td>
<td></td>
<td></td>
<td>X</td>
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</tr>
<tr>
<td>8880</td>
<td>LB Agar acc. to Miller</td>
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<td>X</td>
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<tr>
<td>8817</td>
<td>LB Broth acc. to Lennox</td>
<td></td>
<td></td>
<td>X</td>
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</tr>
<tr>
<td>8885</td>
<td>LB Broth acc. to Miller</td>
<td></td>
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<tr>
<td>8811</td>
<td>Legionella BCYE Agar (base)</td>
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<tr>
<td>8796</td>
<td>MacConkey Agar Ph. Eur.</td>
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<tr>
<td>8753</td>
<td>MacConkey Broth Ph. Eur.</td>
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<tr>
<td>8764</td>
<td>Malt Extract Broth</td>
<td></td>
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</tr>
<tr>
<td>8743</td>
<td>Mannitol Salt Agar (Chapman Agar)</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8761</td>
<td>MRS Agar ISO</td>
<td></td>
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<tr>
<td>8733</td>
<td>MRS Broth</td>
<td></td>
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<tr>
<td>8710</td>
<td>MYP Agar (Mannitol Egg Yolk Polymyxin Agar) (base)</td>
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<tr>
<td>8657</td>
<td>Nutrient Agar APHA</td>
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<tr>
<td>8546</td>
<td>Orange Serum Agar</td>
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<tr>
<td>8519</td>
<td>Oxford Listeria Agar (base)</td>
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<td>X</td>
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<tr>
<td>8429</td>
<td>Palcam Listeria Agar (base)</td>
<td></td>
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<td>X</td>
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</tr>
<tr>
<td>8449</td>
<td>Peptone Water, buffered ISO</td>
<td></td>
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<td>X</td>
<td></td>
</tr>
<tr>
<td>8425</td>
<td>Plate Count Agar (PCA)</td>
<td></td>
<td></td>
<td>X</td>
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</tr>
<tr>
<td>8459</td>
<td>Plate Count Skim Milk Agar (PCA)</td>
<td></td>
<td></td>
<td>X</td>
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</tr>
<tr>
<td>8992</td>
<td>Potato Dextrose Agar Ph. Eur.</td>
<td></td>
<td></td>
<td>X</td>
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</tr>
<tr>
<td>8267</td>
<td>R2A Agar Ph. Eur.</td>
<td></td>
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<td>X</td>
<td></td>
</tr>
<tr>
<td>8229</td>
<td>Rappaport Vassiliadis Broth</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9749</td>
<td>Reinforced Clostridial Medium (RCM) Ph. Eur.</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8159</td>
<td>Sabouraud 2 % Glucose Broth Ph. Eur.</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8135</td>
<td>Sabouraud 4 % Glucose Agar Ph. Eur.</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8174</td>
<td>Slanetz und Bartley Agar (base)</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8152</td>
<td>Standard 1 Nutrient Agar</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8180</td>
<td>Standard 1 Nutrient Broth</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8077</td>
<td>Terrific Broth</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9661</td>
<td>Triple Sugar Iron Agar</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9738</td>
<td>Tryptic Soy Agar (TSA) Ph. Eur.</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9775</td>
<td>Tryptic Soy Agar (TSA) with Polysorbate 80 and Lecithin Ph. Eur.</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>9721</td>
<td>Tryptic Soy Broth (TSB) Ph. Eur.</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>8032</td>
<td>TSC Agar (Tryptose Sulphite Cycloserine Agar)</td>
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<td>7883</td>
<td>VRB Agar (Violet Red Bile Lactose Agar)</td>
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<tr>
<td>7836</td>
<td>VRBD Agar (Violet Red Bile Dextrose Agar) Ph. Eur.</td>
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<td>7772</td>
<td>Wort Agar</td>
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<tr>
<td>7579</td>
<td>Wort Broth</td>
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<tr>
<td>7649</td>
<td>XLD Agar (Xylose Lysine Deoxycholate Agar) ISO</td>
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<tr>
<td>7533</td>
<td>YGC Agar (Yeast Extract Glucose Chloramphenicol Agar)</td>
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<tr>
<td>7556</td>
<td>YPD Broth</td>
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<td>X</td>
<td></td>
</tr>
<tr>
<td>7579</td>
<td>2x YT Broth</td>
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TH. GEYER IS A FULL SERVICE LABORATORY PROVIDER

We offer our customers high-quality products and expert services for all laboratory needs as well as for the very specific laboratory needs. That is why you will of course not only find everything for your culture media laboratory in our comprehensive portfolio, but also countless top products for all your microbiology needs.

The following list gives you a quick overview of the product range. We will be happy to advise you and take care of your individual needs. With more than 125 years of experience in the business, we are always there for you, "supplying your ideas."

CULTURE MEDIA, REAGENTS AND REFERENCE MATERIAL

- Dehydrated culture media
- Ready-to-use media (plates, vials, Dip Slides, contact plates)
- Supplements
- Antibiotics
- Reference strains
- Reference materials
- Staining solutions
- etc.

CHEMICALS IN GENERAL

- Buffers
- Alcohols
- Calibration solutions
- Storage solutions
- etc.

CONSUMABLES

- Petri dishes
- Inoculation loops
- Glassware (test tubes, flasks, bottles, etc.)
- Cryo products
- Pipettes
- Sample tubes and beakers
- Smear test instruments
- etc.

DEVICES

- Homogenizer
- Microscopes
- Autoclaves
- Incubators
- Air samplers
- Biological safety cabinets
- Water baths
- pH meters
- Bunsen burners
- Thermometers
- Colony counters
- Data loggers
- etc.

SAFETY

- Lab coats
- Safety gloves
- Safety spectacles
- Heat protection
- Skin care
- etc.

CLEANING AND DISPOSAL

- Disposal bags
- Desinfectants
- Surface cleaners
- Cleaning wipes
- etc.
WE LOOK FORWARD TO RECEIVING YOUR ORDER

Technical modifications and mistakes reserved. We deliver exclusively in accordance with our general terms and conditions of business, which we will be pleased to provide you with upon request.