









HARMONIZED USP/EP/JP

Bile-tolerant **Gram-negative Bacteria** EE Broth, Mossel (7603)

Formula / Liter

Desiccated Ox Bile 20 g
Enzymatic Digest of Gelatin 10 g
Sodium Phosphate, Dibasic 8 g
Dextrose 5 g
Potassium Phosphate, Monobasic 2 g
Brilliant Green 0.015 g
Final pH: 7.2 ± 0.2 at 25°C

<u>Directions</u>

- 1. Suspend 45 g of the medium in one liter of purified water.
- 2. Heat at 100°C for 30 minutes to completely dissolve the medium.
- 3. Cool rapidly in cold water.
- 4. DO NOT AUTOCLAVE.

■ Bile-tolerant **Gram-negative Bacteria** Violet Red Bile Glucose Agar (7425)

Formula / Liter

Enzymatic Digest of Gelatin	7.0 g
Yeast Extract	3.0 g
Dextrose	10.0 g
Bile Salts	1.5 g
Sodium Chloride	5.0 g
Neutral Red	0.03 g
Crystal Violet	0.002 g
Agar	*13.5 g
#10 1F P P	4.1

*10 -15 g according to gel strength Final pH: 7.4 ± 0.2 at 25°C

- <u>Directions</u>
 1. Suspend 40 g of the medium in one liter of purified
- water.

 2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.

 3. DO NOT AUTOCLAVE.

 4. Cool to 45 50°C and dispense into sterile pour plates.

Escherichia coli MacConkey Broth (7185)

Formula / Liter

20 g
10 g
5 g
0.01 g
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<u>Directions</u>

- 1. Dissolve 35 a of the medium in one liter of purified
- 2. Mix thoroughly.3. Dispense into tubes containing Durham tubes.
- 4. Autoclave at 121°C for 15 minutes

Escherichia coli MacConkey Agar (7102)

Formula / Liter

Enzymatic Digest of Gelatin	17 g
Enzymatic Digest of Casein	1.5 g
Enzymatic Digest of Animal Tissue	1.5 g
Lactose	10 g
Bile Salts Mixture	1.5 g
Sodium Chloride	5 g
Neutral Red	0.03 g
Crystal Violet	0.001 g
Agar	13.5 g
Final pH: 7.1 ± 0.2 at 25°C	

Directions

- 1. Suspend 50 g of the medium in one liter of purified water.
- 2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.

 3. Autoclave at 121°C for 15 minutes.

Salmonella spp.
Rappaport-Vassiliadis Salmonella
Enrichment Broth (7730)

Formula / Liter

Soy Peptone 4.5 g
Sodium Chloride 8.0 g
Potassium Phosphate, monobasic 0.60 g
Potassium Phosphate, dibasic 0.40 g
Magnesium Chloride, anhydrous* 13.58 g
Malachite Green 0.036 g
Final pH: 5.2 ± 0.2 at 25°C

<u>Directions</u>

- 1. Dissolve 27.2 g of the medium in one liter of purified water
- 2. Mix thoroughly.
- 3. Dispense 10 mL into glass tubes, cap and autoclave at 115°C for 15 minutes.

Salmonella spp. XLD Agar (7166)

Formula / Liter

Yeast Extract	3 g
Lactose	7.5 g
Sucrose	7.5 g
Xylose	3.5 g
L-Lysine	5 a
Ferric Ammonium Citrate	
Phenol Red	0.08 g
Sodium Chloride	5 a
Sodium Deoxycholate	2.5 g
Sodium Thiosulfate	6.8 g
Agar	13.5 g
Final pH: 7.4 ± 0.2 at 25°C	3

Directions

- 1. Suspend 55 g of the medium in one liter of purified
- 2. Heat with frequent agitation until the medium reaches the boiling point.
- 3. AVOID OVERHEATING, DO NOT AUTOCLAVE

■Pseudomonas aeruginosa Cetrimide Agar (Agar Medium N) (7688)

Formula / Liter

Enzymatic Digest of Gelatin	20 g
Magnesium Chloride	1.4 g
Potassium Sulfate	10 g
Cetrimide	0.3 g
Agar	13.6 g
Final pH 7.2 ± 0.2 at 25°C	

Directions

- 1. Suspend 45.3 g of the medium and 10 mL of glycerol in one liter of purified water.
- 2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.

3. Autoclave at 121°C for 15 minutes.

■ Staphylococcus aureus Mannitol Salt Agar (7143)

Formula / Liter

Enzymatic Digest of Casein 5 g
Enzymatic Digest of Animal Tissue 5 g
Beef Extract 1 g
D-Manntol 10 g
Sodium Chloride 75 g
Phenol Red 0.025 g
Agar 15 g
Final pH: 7.4 ± 0.2 at 25°C

Directions

- 1. Suspend 111 g of the medium in one liter of purified water.
- 2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
- 3. Autoclave at 121°C for 15 minutes.

Clostridia

Reinforced Clostridial Medium (7714)

Formula / Liter

Beef Extract	10 g
Peptone	10 g
Sodium Chloride	5 g
Dextrose	5 g
Yeast Extract	3 g
Sodium Acetate	3 g
Soluble Starch	1 g
L-Cysteine HCI	0.5 g
Agar	0.5 g
Final pH: 6.8 ± 0.2 at 25°C	

Directions

- 1. Suspend 52 g of the medium in one liter of purified water.
- 2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.

 3. Autoclave at 121°C for 15 minutes.

Clostridia Columbia Agar (7734)

Formula / Liter

Pancreatic Digest of Casein	10 g
Meat Peptic Digest	5 g
Heart Pancreatic Digest	3 g
Yeast Extract	5 g
Maize Starch	1 g
Sodium Chloride	5 g
Agar	12 g
Final pH: 7.3 ± 0.2 at 25°C	

Directions

- 1. Dissolve 41 g of the medium in one liter of purified water.
- 2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.

 3. Autoclave at 121°C for 15 minutes.

Candida albicans

Sabouraud Dextrose Broth (7617)

Formula / Liter

Enzymatic Digest of Casein 5 g	
Enzymatic Digest of Animal Tissue 5 g	
Dextrose 20 g	
Final pH: 5.6 + 0.2 at 25°C	

Directions

- 1. Dissolve 30 g of the medium in one liter of purified water.
- 2. Mix thoroughly.3. Autoclave at 121°C for 15 minutes.

Candida albicans Sabouraud Dextrose Agar (7150)

Formula / Liter

Enzymatic Digest of Casein 5 g
Enzymatic Digest of Animal Tissue 5 g
Dextrose 40 g
Agar 15 g
Final pH: 5.6 ± 0.2 at 25°C

Directions

- 1. Suspend 65 g of the medium in one liter of purified water.
- 2. Heat with frequent agitation and boil for one
- minute to completely dissolve the medium. 3. Autoclave at 121°C for 15 minutes.

Candida albicans Potato Dextrose Agar (7149)

Formula / Liter

Potato Infusion from 200 g 4 g*
Dextrose 20 g
Agar 15 g
*4.0 g of potato extract is equivalent to
200 g of infusion from potatoes.
Final pH: 5.6 ± 0.2 at 25°C
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- 1. Suspend 39 g of the medium in one liter of purified
- 2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
- 3. Autoclave at 121°C for 15 minutes.

■ Microbial Enumeration Tryptic Soy Agar (7100)

Formula / Liter

Enzymatic Digest of Casein	15	g
Enzymatic Digest of Soybean Meal	5	g
Sodium Chloride	5	g
Agar	15	g
Final pH: 7.3 ± 0.2 at 25°C		

Directions

- 1. Suspend 40 g of the medium in one liter of purified
- 2. Heat with frequent agitation and boil for one $\ minute \ to \ completely \ dissolve \ the \ medium.$
- 3. Autoclave at 121°C for 15 minutes.
- 4. Optional: Prepare 5 to 10% blood agar by adding appropriate volume of sterile defibrinated blood to melted sterile agar medium, cooled to 45 – 50°C.

Sterility Tryptic Soy Broth (7164)

Formula / Liter

Enzymatic Digest of Casein	17.0	g
Enzymatic Digest of Soybean Meal	3.0	g
Sodium Chloride	5.0	g
Dipotassium Phosphate	2.5	g
Dextrose	. 2.5	g
Final pH: 7.3 ± 0.2 at 25°C		

- 1. Dissolve 30 g of the medium in one liter of purified
- 2. Mix thoroughly.
- 3. Autoclave at 121°C for 15 minutes.

Sterility Fluid Thioglycollate Medium (7137)

Formula / Liter

Enzymatic Digest of Casein	15 g
Yeast Extract	5 g
Dextrose	5.5 g
L-Cystine	0.5 g
Sodium Chloride	2.5 g
Sodium Thioglycollate	0.5 g
Resazurin	0.001 g
Agar	0.75 g
Final pH: 7.1 ± 0.2 at 25°C	

- 1. Dissolve 29.8 g of the medium in one liter of purified
- 2. Heat with frequent agitation to completely dissolve the medium.
- 3. Autoclave at 121°C for 15 minutes.

Buffered Sodium Chloride -Peptone Solution, pH 7.0 (7732)

Formula / Liter

Potassium Phosphate, dibasic 3.6 g Sodium Phosphate, monobasic* 5.8 g Sodium Chloride 4.3 g Enzymatic Digest of Casein 1.0 g * Anhvdrous Final pH: 7.0 ± 0.2 at 25°C

Directions

- 1. Dissolve14.7 g of the medium in one liter of purified
- 2. Mix thoroughly.3. Autoclave at 121°C for 15 minutes.

