

Listeria Enrichment Broth



Medium used for the isolation and cultivation of *Listeria monocytogenes*.

*Equally use with MFDS (MB-2192K) and QIA (MB-2192Q)

• CONTENTS (Liter)

Pancreatic Digest of Casein	17.0 g
Enzymatic Digest of Soybean Meal	3.0 g
Dextrose	2.5 g
Sodium Chloride	5.0 g
Dipotassium phosphate	2.5 g
Yeast Extract	6.0 g
Cycloheximide	0.05 g
Acriflavine HCl	0.015 g
Nalidixic Acid	0.04 g
Final pH = 7.3 ± 0.2 at 25°C	

• PROCEDURE

Suspend 36.1 G of powder in 1L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

• INTERPRETATION

Listeria Enrichment Broth is a medium used for the isolation and cultivation of *Listeria monocytogenes*. Pancreatic digest of casein, enzymatic digest of soybean meal and yeast extract provide nitrogen, vitamins and minerals. Dextrose is a carbohydrate source. Sodium chloride maintains the osmotic balance. Dipotassium phosphate is a buffering agent. Cycloheximide is used to inhibit growth of saprophytic fungi. Acriflavine HCl suppresses growth of gram-positive bacteria. Nalidixic acid inhibits growth of gram-negative organisms.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 30 ± 2°C for 18 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: clear to slightly opalescent

Color: light yellow

Incubation conditions: 30 ± 2°C / 18 - 48 hours

Microorganism	ATCC	Inoculate CFU	Growth
<i>Listeria monocytogenes</i>	15313	50-100	good
<i>Staphylococcus aureus</i>	25923	≥10 ³	inhibited
<i>Saccharomyces cerevisiae</i>	76625	≥10 ³	inhibited
<i>Escherichia coli</i>	25922	≥10 ³	inhibited

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Lovett et al (1987) j. food Protection 50: 188.
2. Refer to the MFDS and QIA.

• PACKAGE

Cat. No : MB-L2192 Listeria Enrichment Broth	500 G
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