

Buffered Listeria Enrichment Broth

Cat. No. B02-131

Date of issue
2/07/14

DESCRIPTION

Buffered Listeria Enrichment Broth is used for selective enrichment of *Listeria spp.* A modification of Listeria Enrichment Broth developed by Lovett, this media was designed to improve the enrichment of *Listeria spp.* with the addition of Disodium Phosphate thereby increasing the buffering capacity. *Listeria spp.*, found in soil, sewage, and river water in addition to unprocessed foods, are Gram- positive, short and motile rods. Cycloheximide in this formulation inhibits the growth of saprophytic fungi while Nalidixic Acid is used to inhibit the growth of Gram- negative organisms.

Formula* per Liter:

Casein Digest of Peptone.....	17.0g
Soy Peptone.....	3.0g
Dextrose.....	2.5g
Yeast Extract.....	6.0g
Nalidixic Acid.....	0.04g
Cycloheximide.....	0.05g
Monopotassium Phosphate.....	1.35g
Sodium Chloride.....	5.0g
Acriflavin.....	0.015g
Dipotassium Phosphate.....	2.5g
Disodium Phosphate.....	9.6g

Final pH: 7.3 ± 0.2 at 25°C

* Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 47 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing, and light beige to beige.
2. Visually the prepared medium is gold to yellow, and slightly hazy to clear.
3. Expected cultural response after 18-48 hours at 30 ± 2°C.

Organism:

Escherichia coli ATCC® 25922
Listeria monocytogenes ATCC® 7644
Staphylococcus aureus ATCC® 25923
Listeria monocytogenes ATCC® 15313

Result:

Inhibited
 Growth
 Suppressed 18-24 hours
 Growth

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing, or if the color has changed from the original light beige to beige color.