

PRODUCT INFORMATION

Buffered Listeria Enrichment Broth

Cat. No. B02-131

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 (g/L)

Casein Digest of Peptone	16.0 g	Soy Peptone	3.0 g
Dextrose	2.5 g	Yeast Extract	6.0 g
Nalidixic Acid	0.04 g	Cycloheximide	0.05 g
Monopotassium Phosphate	1.35 g	Sodium Chloride	5.0 g
Acriflavin	0.015 g	Dipotassium Phosphate	2.5 g
Disodium Phosphate	9.6 g		

Final pH: 7.3 ± 0.2 at 25 °C

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

PREPARATION

Mix 46 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	RESULT
<i>Escherichia coli</i> ATCC 25922	Inhibited
<i>Listeria monocytogenes</i> ATCC 7644	Good to Excellent Growth
<i>Staphylococcus aureus</i> ATCC 25923	Good to Excellent Growth
<i>Listeria monocytogenes</i> ATCC 15313	Inhibited to suppressed @ 18-24 hours

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 color.