

PRODUCT INFORMATION

Listeria Enrichment Broth

Cat. No. L12-110

DESCRIPTION

Listeria Enrichment Broth is used for the selective enrichment and isolation of Listeria spp. This medium was developed for the recovery of Listeria monocytogenes from cheeses and pasteurized milk. Peptones and yeast extracts supply necessary growth nutrients while Potassium Phosphate, Dibasic acts as a buffering agent. Selectivity is accomplished by the addition of Cycloheximide, Nalidixic acid and Acriflavine.

FORMULA (g/L)

Enzymatic Digest of Casein	17.0 g	Soy Peptone	3.0 g
Yeast Extract	6.0 g	Dextrose	2.5 g
Sodium Chloride	5.0 g	Potassium Phosphate, Dibasic	2.5 g
Cycloheximide	0.05 g	Nalidixic Acid	0.04 g
Acriflavine, HCl	0.015 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 36.1 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring to dissolve completely. Autoclave at 121°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and light beige.
2. Visually the prepared medium is orange amber with greenish opalescent top.
3. Expected cultural response after 18-48 hours at 35°C.

ORGANISM	RESULT
<i>Escherichia coli</i> ATCC 25922	Inhibition
<i>Listeria monocytogenes</i> ATCC 7644	Good Growth
<i>Listeria monocytogenes</i> ATCC 15313	Good Growth
<i>Saccharomyces cerevisiae</i> ATC 9763	Inhibition
<i>Staphylococcus aureus</i> ATC 25923	Inhibition at 24hrs/Suspension at 48hrs

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.