

PRODUCT INFORMATION

Your Smarter Culture Media Choice



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UVM Modified Listeria Enrichment Broth

Cat. No. U21-103

DESCRIPTION

Developed by Donnelly and Baigent, UVM Modified Listeria Enrichment Broth medium is used for the selective isolation and enrichment of *Listeria spp.* from clinical specimens and food. Within the formula, the high salt tolerance of Listeria is used to inhibit the growth enterococci, Nalidixic acid (20 mg/L) to inhibit Gram-negative microorganisms and Acriflavin to inhibit Gram-positive bacteria. The Esculin is utilized by *Listeria spp.* and results in the blackening of this medium.

Formula* per Liter:

Casein Peptone	5.0g
Peptic Digest of Animal Tissue	5.0g
Yeast Extract.....	5.0g
Beef Extract.....	5.0g
Monopotassium Phosphate	1.35g
Acriflavin, HCl	0.012g
Sodium Chloride	20.0g
Disodium Phosphate	9.6g
Esculin	1.0g
Naladixic Acid	0.020g

Final pH: 7.2 ± 0.2 at 25°C

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

PREPARATION

Mix 52 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.
2. Visually the prepared medium is clear to trace hazy, greenish-yellow to yellow with faint bluish-green ring at the surface and slightly opalescent.
3. Expected cultural response after 18-48 hours at 35°C.

Organism:

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

Result:

Inhibited
Growth
Growth
Inhibited

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 color.