



Actero™ UVM Modified Listeria Enrichment Broth Product Information

Catalogue No.	Description
FCM-054	Actero™ UVM Modified Listeria Enrichment Broth (500 G)
FCM-053	Actero™ UVM Modified Listeria Enrichment Broth (2 KG)
FCM-052	Actero™ UVM Modified Listeria Enrichment Broth (10 KG)

INTENDED USE

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 the blackening of this medium.

Formula* per Liter:

Casein Digest of 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.....0.02g
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	Result
<i>Escherichia coli</i> ATCC® 25922	Inhibited
<i>Listeria monocytogenes</i> ATCC® 7644	Growth
<i>Listeria monocytogenes</i> ATCC® 15313	Growth
<i>Staphylococcus aureus</i> ATCC® 25923	Inhibited

Storage Instructions:

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.

