



## Actero™ Buffered Listeria Enrichment Broth Product Information

Catalogue No.	Description
FCM-057	Actero™ Buffered Listeria Enrichment Broth (500 G)
FCM-056	Actero™ Buffered Listeria Enrichment Broth (2 KG)
FCM-055	Actero™ Buffered Listeria Enrichment Broth (10 KG)

### INTENDED USE

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  
Acridine.....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

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.

#### Result:

Organism	Result
<i>Escherichia coli</i> ATCC® 25922	Inhibited
<i>Listeria monocytogenes</i> ATCC® 7644	Growth
<i>Staphylococcus aureus</i> ATCC® 25923	Suppressed 18-24 hours
<i>Listeria monocytogenes</i> ATCC® 15313	Growth

#### 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 to beige color.

