



## Actero™ Palcam Broth Product Information

Catalogue No.	Description
FCM-105	Actero™ Palcam Broth (500 G)
FCM-104	Actero™ Palcam Broth (2 KG)
FCM-103	Actero™ Palcam Broth (10 KG)

### INTENDED USE

Palcam Broth is used for the selective enrichment of *Listeria* spp. from food and environmental samples. Mannitol fermenting species of *Listeria* give the broth a yellow color due to the Phenol red. Lithium Chloride provides selectivity to Palcam Broth due to the high salt tolerance of *Listeria* spp. Most gram-negative and gram-positive bacteria are suppressed by the addition of Polymyxin B, Acriflavin, and Ceftazimide to the cooled medium.

#### Formula\* per Liter:

Casein Digest Peptone.....	23.0g
Yeast Extract.....	5.0g
Lithium Chloride.....	10.0g
Esculin.....	0.8g
Ferric Ammonium Citrate .....	0.5g
Mannitol .....	5.0g
Phenol Red .....	0.08g
Lecithin .....	1.0g
Tween 80.....	2.0g

**Final pH: 7.2 ± 0.2 at 25°C**

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

### PREPARATION

Mix 47g of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring to dissolve completely. Distribute and autoclave at 121°C for 15 minutes. Cool to 45- 50°C. Aseptically add sterile solution of Polymyxin B 10mg/L, Acriflavin 5mg/L, and Ceftazimide 20mg/L.

### QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, soft lumps, and beige to tan with faint pink tint.
2. Visually the prepared medium is hazy to slightly hazy and red.
3. Expected cultural response after 24-48 hours at 30°C.

### RESULTS:

Organism	Growth
<i>Escherichia coli</i> ATCC® 25922	Inhibition
<i>Enterococcus faecalis</i> ATCC® 29212	Complete Inhibition
<i>Listeria monocytogenes</i> ATCC® 7644	Black-Brown
<i>Staphylococcus aureus</i> ATCC® 25923	Complete Inhibition
<i>Listeria monocytogenes</i> ATCC® 19112	Black-Brown
<i>Listeria monocytogenes</i> ATCC® 15313	Black-Brown

### 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 beige-tan color.

