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# Product Name : Listeria Enrichment Broth Base (Lovett)

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Broth for enrichment of *Listeria spp.* according to Lovett's formulation.

## FORMULA (G/L)

Tryptone .....	17.0
Soytone .....	3.0
Glucose .....	2.5
Yeast Extract .....	6.0
Sodium Chloride .....	5.0
Dipotassium Phosphate .....	2.5
Final pH = 7.3 ± 0.2 at 25 °C.	

## DIRECTIONS

Suspend 36.0 G of powder in 1 L of distilled or deionized water. Heat until completely dissolved. Sterilize in autoclave at 121 °C for 15 minutes. Cool to 45-50°C. Aseptically add 2 vials of Listeria Enrichment supplement (MB-L0704). Dispense into final containers.

### Listeria Enrichment supplement

1 Vial contents (each vial is sufficient for 500mL of medium)

Acriflavine HCl.....	0.0075 G
Cycloheximide .....	0.025 G
Nalidixic Acid .....	0.02 G

## DESCRIPTION

Listeria Enrichment Broth Base (Lovett) is a broth for enrichment of *Listeria spp.* according to Lovett's formulation.

## TECHNIC

- Add 25 mL of liquid or 25 G of solid test material to 225 mL of Listeria Enrichment Broth Base (Lovett) and mix or blend thoroughly.
- Incubate at 30 ± 2°C for 48 hours.
- Using a sterile loop spread the incubated broth sample onto the entire surface of a selective agar plate for *Listeria spp.*
- Incubate at 36 ± 1 °C for 24-48 hours.

## USER QUALITY CONTROL

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

### Prepared medium

Appearance: clear to slightly opalescent.

Color: light yellowish-amber.

Incubation conditions: 30 ± 2°C / 18-48 hours.

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Microorganism	ATCC	Growth
<i>Enterococcus faecalis</i>	29212	inhibited
<i>Escherichia coli</i>	25922	inhibited
<i>Listeria monocytogenes</i>	19114	good
<i>Saccharomyces cerevisiae</i>	9080	inhibited

### PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of  $\geq 1\%$ . The product must be used only by properly trained operators.

### STORAGE

The powder is very hygroscopic: store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared media at 2-6°C.

### REFERENCES

1. International Dairy Federation. 1995. Milk and Milk Products – Detection of *Listeria monocytogenes*. No 143A. Brussels, Belgium.
2. Hitchens, 1995. In FDA bacteriological analytical manual, 8th ed. AOAC International, Gaithersburg, Md.

### PACKAGING

Cat. No : MB-L1326 Listeria Enrichment Broth Base (Lovett)	500 G
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