

LISTERIA ENRICHMENT BROTH BASE (Lovett)

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

TYPICAL 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

DESCRIPTION

LISTERIA ENRICHMENT BROTH BASE (Lovett) is a broth for enrichment of *Listeria spp.* according to Lovett's formulation.

PRINCIPLE

Tryptone and soytone provide nitrogen and other nutrient to support microbial growth. Glucose is a source of carbohydrate. Yeast extract is a source of amino acids and vitamins of group B. Sodium chloride maintains the osmotic balance of the medium. Dipotassium phosphate is the buffer of the medium.

PREPARATION

Suspend 36.0 g of powder in 1 liter 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 Supplement for Enrichment (ref. 81045).

TECHNIQUE

- Add 25 mL of liquid or 25 g of solid test material to 225 mL of **LISTERIA ENRICHMENT BROTH** 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.

INTERPRETATION OF RESULTS

Examine agar plates for typical colonies of *Listeria spp.* Performe biochemical and serological tests for confirmation of *Listeria spp.*

STORAGE

10-30°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.
Store the prepared medium at 2-8 °C.

WARNING and PRECAUTIONS

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

DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

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.



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PRODUCT SPECIFICATIONS

NAME

LISTERIA ENRICHMENT BROTH BASE (Lovett)

PRESENTATION

Dehydrated medium

STORAGE

10-30 °C

PACKAGE

Code	Content	Packaging
610326	500 g	500 g of powder in plastic bottle
620326	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM

7.3 ± 0.2

USE

LISTERIA ENRICHMENT BROTH BASE (Lovett) is a broth for enrichment of *Listeria spp.* according to Lovett's formulation.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE OF THE MEDIUM

Dehydrated medium

Appearance: free-flowing, homogeneous.

Colour: light beige

Prepared medium

Appearance: clear to slightly opalescent

Colour: light yellowish- amber.

SHELF LIFE

4 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control

7 days at 25 ± 1°C, in aerobiosis

7 days at 36 ± 1°C, in aerobiosis

- Microbiological control

Inoculum for productivity: 10-100 UFC/ml







Inoculum for specificity: 10⁴-10⁵ UFC/ml

Inoculum for selectivity: ≤ 10⁴ UFC/ml

Incubation conditions: 18-48 h at 30 ± 2°C

Microorganisms		Growth
<i>Enterococcus faecalis</i>	ATCC 29212	Inhibited
<i>Escherichia coli</i>	ATCC 25922	Inhibited
<i>Listeria monocytogenes</i>	ATCC 19114	Good
<i>Saccharomyces cerevisiae</i>	ATCC 9080	Inhibited

TABLE OF SYMBOLS

LOT	Batch code	 Temperature limitation	 Manufacturer	 Contains sufficient for <n> tests
REF	Catalogue number	 Keep away from heat	 Use by	 Caution, consult accompanying documents



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