

Specification

Liquid culture medium for the enrichment and detection of *Listeria* ssp. according to ISO standards.

Presentation

	Packaging Details	Shelf Life	Storage
10 Prepared bottles Bottles 250 ml with: 225 ± 5 ml	1 box with 10 bottles 250 ml. White thermo resistant polypropylene cap.	12 months	2-25 °C

Composition

Composition (g/l):	
Peptone from meat.....	5.0000
Casein Peptone.....	5.0000
Yeast extract.....	5.0000
Meat extract.....	5.0000
Sodium chloride.....	20.0000
Disodium phosphate.....	12.0000
Monopotassium phosphate.....	1.3500
Esculin.....	1.0000
Lithium chloride.....	3.0000
Ammonium ironIII citrate.....	0.5000
Nalidixic ac.....	0.0100
Acriflavine.....	0.0125

Description /Technique

Description:

Half Fraser Broth is a modification of Fraser Broth which contains half of the concentration of nalidixic acid and acriflavine to aid in the recovery of stressed cells.

Half Fraser Broth is used as the primary enrichment broth according to the EN ISO 11290 for the detection of *Listeria*.

Directions for Use:

For the inoculation of bottles, follow the standard laboratory method or the applicable norms, (Stab inoculation, loop inoculation, dilution banks , etc ...).

The use methodology is described in the EN ISO 11290.

Note:The medium can show the possible presence of precipitates not affecting its correct performance.

Quality control

Physical/Chemical control

Color : Brown-yellowish pH: 7.2 ± 0.2 at 25°C

Microbiological control

Inoculate: Practical range 100 ± 20 CFU. min. 50 CFU (productivity)/ 10⁴-10⁶ (selectivity).

Microbiological control according to ISO 11133:2014/A1:2018.

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 30 ± 1 °C during 25 ± 1 h.

Microorganism

Escherichia coli ATCC® 8739, WDCM 00012 (1)
Enterococcus faecalis ATCC® 19433, WDCM 00009 (2)
Listeria monocytogenes ATCC® 13932 + (1) + (2)
Listeria monocytogenes ATCC® 35152 + (1) + (2)

Growth

Inhibited. Confirm in TSA at 37°C±1 reading 24 ± 3h
 Partial Inhibition. Confirm in TSA at 37°C±1 reading 24 ± 3h.
 > 10 CFU. Blue-green coln. w. opaque halo (Ottaviani Agosti)
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Sterility control

Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH.
 Check at 7 days after incubation in same conditions.

Bibliography

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