

TECHNICAL DATASHEET

Article no. 9653

Half-Fraser Broth ISO in Bags

SPECIFICATION

Liquid culture medium in bags, sterile. Medium for the enrichment and detection of *Listeria ssp.* according to ISO 11290.

COMPOSITION IN G/L

Peptone from meat	5.000
Casein peptone	5.000
Yeast extract	5.000
Meat extract	5.000
Sodium chloride	20.000
Disodium phosphate	12.000
Monopotassium phosphate	1.350
Esculin	1.000
Lithium chloride	3.000
Ammonium iron(III) citrate	0.500
Nalidixin acid	0.010
Acriflavine	0.0125

pH: 7.2 ± 0.2 at 25 °C

PACKAGE SIZE

9653-5x2L

Content 2000 ± 15 ml
Package unit 5 Bags
1 box with 5 x 2 l.

Sterile PVC bag, plasticiser-free, with two outlets: 1 vial stopper and 1 penetrable cap.

Dimensions: 18 x 32 cm. Suitable for use in food testing.



9653-3x3L

Content 3000 ± 15 ml
Package unit 3 Bags

1 box with 3 x 3 l.

Sterile PVC bag, plasticiser-free, with two outlets: 1 vial stopper and 1 penetrable cap.

Dimensions: 23 x 32 cm. Suitable for use in food testing.

9653-2x5L

Content 5000 ± 15 ml
Package unit 2 Bags

1 box with 2 x 5 l.

Sterile PVC bag, plasticiser-free, with two outlets: 1 vial stopper and 1 penetrable cap.

Dimensions: 27 x 40 cm. Suitable for use in food testing.

DESCRIPTION /TECHNIQUE

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*.

For the inoculation of bags 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.

Each bag is intended for use with an automatic dispenser in laboratories requiring large volumes of broth media or diluent. Discard any partially used bag to avoid contamination.

The bag has multiple connection points:

1 penetrable cap (injection port) latex-free polycarbonate, for any additive injection required.

1 injection (vial stopper) to connect to any standard equipment laboratory dosing with a connector.

Once completely empty, the bag can be disposed of along with normal plastic (PVC).

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

QUALITYCONTROL

Physical control

Color Brown-yellowish

Microbiological control

Prepare tubes - Inoculate with 100±20 CFU for growth promotion or 10⁴-10⁶ CFU (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 24 ± 2 h.

Microorganism	Growth
<i>Escherichia coli</i> ATCC® 8739 (1)	Inhibited. Confirm in TSA at 37°C±1 reading 24 ± 3h
<i>Enterococcus faecalis</i> ATCC® 19433 (2)	Partial Inhibition. Confirm in TSA at 37°C±1 reading 24 ± 3h.
<i>Listeria monocytogenes</i> ATCC® 13932, WDCM 00021 + (1) + (2)	> 10 CFU. Blue-green coln. w. opaque halo (Ottaviani Agosti)
<i>Listeria monocytogenes</i> ATCC® 35152, WDCM 00109 + (1) + (2)	> 10 CFU. Blue-green coln. w. opaque halo (Ottaviani Agosti)

Sterility control

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

REFERENCES

- ATLAS, R.M. (1993) Handbook of Microbiological Media. CRC Press. Boca Raton. Florida.
- FRASER, J.A. & W.H. SPERBER (1988) Rapid detection of *Listeria* spp. In food and environmental samples by esculin hydrolysis. J. Food Prot. 51:762-765.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- ISO 11290-1:2017 Standard. Microbiology of the food chain. Horizontal method for the detection and enumeration of *Listeria monocytogenes* and for *Listeria* spp.- Part 1: Detection Method
- ISO 11290-2:2017 Standard. Microbiology of the food chain. Horizontal method for the detection and enumeration of *Listeria monocytogenes* and for *Listeria* spp.- Part 2: Enumeration Method.
- McCLAIN, D. & W.H. LEE (1988) Development of a USDA-FSIS method for isolation of *Listeria monocytogenes* from raw meat and poultry. J.AOAC 71:660-664.
- VANDERZANT, C & D.F. SPLITTSTOESSER (1992) Compendium of methods for the microbiological examination of foods. APHA. Washington. DC.

STORAGE

Store at 2 – 25 °C

SHELF LIFE

12 months unopened from date of manufacture

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