

Reference: **BGWR3006**

Half Fraser - 3X3 L **Product:**

Specification

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

Presentation

Shelf Life Storage **Packaging Details** 3 Prepared Bags Bags with: 3000 ± 10 ml 1 box with 3 bags of 3L. 12 months 2-25°C

PVC plasticizer free sterile bag with: 1 vial stopper + 1

penetrable cap. Dimensions: 23 x 32 cm. For use in food testing.

Composition

Composition (g/l):	
Peptone from meat	5.0000
Casein Peptone	5.0000
Yeast extract	5.0000
Meat extract	5.0000
Sodium chloride	20.000
Disodium phosphate	12.000
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.

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.

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. And an 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.

Quality control

Physical/Chemical control

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

Microbiological control

Prepare Tubes - Inoculate with 100±20 CFU for Growth Promotion or 10⁴-10⁶ CFU for Selectivity Microbiological control according to ISO 11133:2014

Aerobiosis. Incubation at 30 ± 1 °C during 18-24 h

Microorganism Growth

Escherichia coli ATCC® 8739 (1) Inhibited Partial Inhibition Enterococcus faecalis ATCC® 19433 (2)

> 10 CFU . Blue-green colonies w. opaque halo (in A. Ottaviani & Agosti) Listeria monocytogenes ATCC® 13932 + (1) + (2) > 10 CFU . Blue-green colonies w. opaque halo (in A. Ottaviani & Agosti)

Listeria monocytogenes ATCC® 35152 + (1) + (2)

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

Page 1 / 2 Revision date: 15/09/16



Reference: BGWR3006

Product: Half Fraser – 3X3 L

Bibliography

- · 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. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- · ISO 11290 Standard (1996) Microbiology of food ad animal feeding stuffs Horizontal method for the detection and enumeration of *Listeria monocytogenes* Part 1: Detection Method.
- · ISO 11290 Standard (1996) / Amd 1 (2004) Microbiology of food ad animal feeding stuffs Horizontal method for the detection and enumeration of *Listeria monocytogenes* Part 1: Detection Method- Amendment 1: Modification of the isolation media and the haemolysis test and inclusion of precision data.
- · ISO 11290 Standard (1998) Microbiology of food ad animal feeding stuffs-Horizontal method for the detection and enumeration of *Listeria monocytogenes* Part 2: Enumeration method.
- · ISO 11290 Standard (1998) / Amd 1 (2004) Microbiology of food ad animal feeding stuffs-Horizontal method for the detection and enumeration of *Listeria monocytogenes* Part 2: Enumeration method-Amendment 1: Modification of the enumeration media.
- · 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.

Page 2 / 2 Revision date: 15/09/16