

# Half Fraser broth (Fraser ½)

Selective pre-enrichment of Listeria from food and environmental specimens

#### CONTENTS

2 x 5 L bags	Ref. 0120216
5 L bags in pallet box	Ref. 0120320
4 x 3 L bags	Ref. 0120212
3 L bags in pallet box	Ref. 0120328
6 x 225 ml bottles	Ref. 0120285I

#### **STORAGE CONDITIONS**

Store the half Fraser broth in its box at 2°C-25°C until its expiry date.

## SUMMARY AND EXPLANATION

Theoretical formula

COMPOSITION

For 1 liter of purified water :
Meat peptone5 g
Casein peptone5 g
Meat extract
Yeast extract 5 g
NaCl 20 g
Buffer mixture 13.35 g
Esculin <sup>1</sup> g
Lithium chloride
Ammonium ferric citrate 0.5 g
Acriflavin 0.0125 g
Nalidixic acid 0.01 g
This medium can be adjusted and/or
supplemented according to the performance
criteria required

The half Fraser broth is used for the selective pre-enrichment of *Listeria* in food and environmental specimens.

The enrichment phase complies with the standards EN ISO 11290-1 (1) and amendment A1 (2) for the detection of *Listeria monocytogenes* in foods

## **QUALITY CONTROL**

The quality control complies with the standard EN ISO 11133 :

Appearance

Sterility

Brownish. Presence of precipitates does not affect product.

<u>pH</u> 7.2 ± 0.2

Conform after 7 days incubations at 20-25°C and 30-35°C The bags are validated by autoclaving cycle (F0>30)

Microbiological activity

Strains references	Inoculum requested	Incubation time and T°	Expected results
Escherichia coli	Between 1 000	24 h ± 2 h	Inhibition after isolation on TSA
ATCC 25922 • WDCM 00013	and 10 000 CFU	at 30°C ± 1°C	
Enterococcus faecalis	Between 1 000	24 h ± 2 h	Partial inhibition (<100 CFU) after
ATCC 19433 • WDCM 00009	and 10 000 CFU	at 30°C ± 1°C	isolation on TSA
Escherichia coli ATCC 25922 • WDCM 00013 + Enterococcus faecalis ATCC 19433 • WDCM 00009 + Listeria monocytogenes ATCC 13932 • WDCM 00021	Between 1 000 and 10 000 CFU Between 1 000 and 10 000 CFU Between 10 and 100 CFU	24 h ± 2 h at 30°C ± 1°C	Growth of blue-green colonies with opaque halos specific of <i>L.</i> <i>monocytogenes</i> (>10 CFU) after isolation on chromogenic medium for confirmation of <i>Listeria</i> species

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Strains references	Inoculum requested	Incubation time and T°	Expected results
Escherichia coli ATCC 25922 • WDCM 00013 + Enterococcus faecalis ATCC 19433 • WDCM 00009 + Listeria monocytogenes ATCC 35152 • WDCM 00109	Between 1 000 and 10 000 CFU Between 1 000 and 10 000 CFU Between 10 and 100 CFU	24 h ± 2 h at 30°C ± 1°C	Growth of blue-green colonies with opaque halos specific of <i>L.</i> <i>monocytogenes</i> (>10 CFU) after isolation on chromogenic medium for confirmation of <i>Listeria</i> species

# BIBLIOGRAPHY

1. EN ISO 11290-1 - Microbiology of food and animal feeding stuffs - Horizontal method for the detection of Listeria monocytogenes.

Part 1: Detection method.
2. EN ISO 11290-1/A1 – Microbiology of food and animal feeding stuffs – Horizontal method for the detection of *Listeria* monocytogenes. Part 1: Detection method - AMENDMENT 1: Modification of the isolation media and the haemolysis test, and inclusion of precision data.