MediaLab

Half Fraser broth (Fraser ½)

Selective pre-enrichment of Listeria from food and environmental specimens

CONTENTS		STORAGE CONDITIONS	
2 x 5 L bags	Ref. 0120216	Store the half Fraser broth in its box at 2°C-25°C until its expiry date.	

COMPOSITION

SUMMARY AND EXPLANATION

Theoretical formula

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

EXPECTED CRITERIA

Example of performance testing recommended for this media according to standard EN ISO 11133 :

<u>Appearance</u> Brownish. Presence of precipitates does not affect product.

 $\underline{pH} \hspace{1cm} 7.2 \pm 0.2$

Sterility 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 isolation on TSA
ATCC 19433 • WDCM 00009	and 10 000 CFU	at 30°C ± 1°C	
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. monocytogenes</i> (>10 CFU) after isolation on chromogenic medium for confirmation of <i>Listeria</i> species

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	24 h ± 2 h at 30°C ± 1°C	Growth of blue-green colonies with opaque halos specific of <i>L. 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.