Fraser Broth (Base)

TN1257 500 g

Intended use
Used for the selective enrichment and the detection of Listeria spp. from foodstuffs (according to § 64 German Food and Feed Code) and from environmental materials.

Form
Powder

Colour
Bright beige

Storage
Dry, tightly closed, at 10...30 °C.

Shelf life
5 years

Typical composition

Component	g/l
Meat peptone	5
Casein peptone	5
Meat extract	5
Yeast extract	5
Sodium chloride	20
Disodium hydrogen phosphate	12
Potassium dihydrogen phosphate	1.4
Esculin	1
Lithium chloride	3

Directions
Dissolve 57.4 g in 1 litre distilled water, autoclave at 121 °C for 15 minutes and cool down to 50 °C.
Dissolve 1/2 Fraser Selective Supplement (TN1319) or Fraser Selective Supplement (TN1318) according to instructions and add to the medium.

Final pH at 25 °C
7.2 ± 0.2

Microbiological quality control
In combination with ½-Fraser Selective Supplement and Fraser Selective Supplement
Incubate ½ Fraser Broth, aerobically for 24 ± 2 hours at 30 ± 1 °C.
Incubate smears on Palcam Agar plates aerobically for 24 ± 3 hours at 36 ± 1 °C.

Test strain	CFU / 10 ml*)	Smear (10 µl) ½ Fraser Broth on Palcam Agar
Listeria monocytogenes Serovar 4a ATCC 19114	≤ 100	≥ 100 colonies per tube
Listeria innocua Serovar 6a ATCC 33090	≤ 100	≥ 100 colonies per tube
Listeria monocytogenes Serovar 1/2 a ATCC 35152 WDCM 00109	≤ 100	≥ 10 colonies per tube
Escherichia coli ATCC 8739 WDCM 00012	≥ 1000	
Enterococcus faecalis ATCC 19433 WDCM 00009	≥ 1000	
Listeria monocytogenes Serovar 4b ATCC 13932 WDCM 00021	≤100	≥ 10 colonies per tube
Escherichia coli ATCC 25922 WDCM 00013	≥ 1000	
Enterococcus faecalis ATCC 29212 WDCM 00087	≥ 1000	

Manufacturer: sifin diagnostics gmbh | Berliner Allee 317-321 | 13088 Berlin | Germany | T: +49 30 927 030-0 | F: +49 30 927 030-30 | info@sifin.de | www.sifin.de

Test strain	CFU / 10 ml*)	Smear (10 µl) ½ Fraser Broth on Palcam Agar
Escherichia coli ATCC 8739 WDCM 00012	≥ 10^4	0 colonies per tube
Escherichia coli ATCC 25922 WDCM 00013	≥ 10^4	0 colonies per tube
Enterococcus faecalis ATCC 19433 WDCM 00009	≥ 10^4	≤ 100 colonies per tube
Enterococcus faecalis ATCC 29212 WDCM 00087	≥ 10^4	≤ 100 colonies per tube

Incubate Fraser Broth, aerobically for 48 ± 2 hours at 37 ± 1 °C.
Incubate smears on Palcam Agar plates aerobically for 24 ± 3 hours at 36 ± 1 °C.

Test strain	CFU / 10 ml*)	Smear (10 µl) Fraser Broth on Palcam Agar
Listeria monocytogenes Serovar 4a ATCC 19114	≤100	≥ 100 colonies per tube
Listeria innocua Serovar 6a ATCC 33090	≤100	≥ 100 colonies per tube
Listeria monocytogenes Serovar 1/2 a ATCC 35152 WDCM 00109	≤100	≥ 10 colonies per tube
Escherichia coli ATCC 8739 WDCM 00012	≥ 1000	
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Listeria monocytogenes Serovar 4b ATCC 13932 WDCM 00021	≤100	≥ 10 colonies per tube
Escherichia coli ATCC 25922 WDCM 00013	≥ 1000	
Enterococcus faecalis ATCC 29212 WDCM 00087	≥ 1000	
Escherichia coli ATCC 8739 WDCM 00012	≥ 10^4	0 colonies per tube
Escherichia coli ATCC 25922 WDCM 00013	≥ 10^4	0 colonies per tube
Enterococcus faecalis ATCC 19433 WDCM 00009	≥ 10^4	≤ 100 colonies per tube

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Test strain	CFU / 10 ml*)	Smear (10 µl) Fraser Broth on Palcam Agar
Enterococcus faecalis ATCC 29212 WDCM 00087	≥ 10^4	≤ 100 colonies per tube

*) Reference medium used: TSA

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