

PRODUCT SPECIFICATION

OXOID HALF FRASER BROTH

BO0350S

Typical Formula*

	grams per litre
Proteose peptone	5.0
Tryptone	5.0
'Lab-Lemco' powder	5.0
Yeast extract	5.0
Sodium chloride	20.0
Di-sodium hydrogen phosphate (anhydrous)	12.0
Potassium dihydrogen phosphate	1.35
Aesculin	1.0
Lithium chloride	3.0
Nalidixic acid	0.01
Acriflavine hydrochloride	0.0125

Addition

Ammonium ferric citrate	0.5
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* adjusted as required to meet performance standards

Preparation

Suspend Half Fraser Broth base (57.4 grams / litre) in de-ionised water. Sterilise at 121°C for 15 minutes. Cool and aseptically add sterile ammonium ferric citrate solution (0.5 grams / litre) Aseptically dispense 225ml into final containers, sterile 250ml plastic PET bottle. Label each bottle and pack in units of 10 into labelled boxes.

Format

Ten 250ml plastic PET bottles with screw cap closures in a box.

Labels

Label gives details of product name, product code, recommended storage temperature, lot number and expiry date.

Physical Characteristics

pH	7.2 ± 0.2
Colour	Straw 3 to straw 4 with blue iridescence
Clarity	Clear
Fill weight	223.0 – 227.0g

Packaging and presentation

General appearance of bottle and label should be satisfactory. Label data should be correct.

Contamination check

Macroscopic examination should show no evidence of microbial growth after incubation at 20-24°C and 30-34°C for 5 days.

Microbiological Tests Using Optimum Inoculum Dilution

Results after incubation at 28-32°C for 24–26 hours

Positive control

<i>Listeria monocytogenes</i>	ATCC® 13932 (WDCM 00021)	1-10 cfu/ml
+ <i>Escherichia coli</i>	ATCC® 25922 (WDCM00013)	10 ³ -10 ⁴ cfu/ml
+ <i>Enterococcus faecalis</i>	ATCC® 29212 (WDCM 00087)	10 ³ -10 ⁴ cfu/ml

Broths are subcultured onto Chromogenic Listeria Agar (ISO), PO1196A which is incubated aerobically at 35-39°C for 18–24 hours.

A satisfactory result is achieved by > 10 blue/green colonies with an opaque halo.

Negative controls

Inoculum 10³-10⁴ cfu/ml

Broths are subcultured onto Tryptone Soya Agar (TSA) which is incubated at 35-39°C for 18–24 hours.

<i>Escherichia coli</i>	ATCC® 25922 (WDCM00013)	Total inhibition
<i>Enterococcus faecalis</i>	ATCC® 29212 (WDCM 00087)	< 100 colonies on TSA

Storage Conditions

Store away from light between 2-12°C

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Tested in accordance with ISO 11133 and ISO 11290-1