PRODUCT SPECIFICATION

OXOID HALF FRASER BROTH  EB0350W

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

* 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 1000ml into final containers, sterile 1000ml, plastic PET bottle. Label each bottle and pack in units of 10 into labelled boxes.

Format
Four 1000ml 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  1000.0 – 1005.0g

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

<table>
<thead>
<tr>
<th>Positive control</th>
<th>ATCC® 13932 (WDCM 00021)</th>
<th>1-10 cfu/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Listeria monocytogenes</em></td>
<td>ATCC® 25922 (WDCM00013)</td>
<td>10^3-10^4 cfu/ml</td>
</tr>
<tr>
<td>+ <em>Escherichia coli</em></td>
<td>ATCC® 29212 (WDCM 00087)</td>
<td>10^3-10^4 cfu/ml</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Negative controls</th>
<th>ATCC® 25922 (WDCM00013)</th>
<th>Total inhibition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inoculum 10^3-10^4 cfu/ml</td>
<td>ATCC® 29212 (WDCM 00087)</td>
<td>&lt; 100 colonies on TSA</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Escherichia coli</th>
<th>ATCC® 25922 (WDCM00013)</th>
<th>Total inhibition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterococcus faecalis</td>
<td>ATCC® 29212 (WDCM 00087)</td>
<td>&lt; 100 colonies on TSA</td>
</tr>
</tbody>
</table>

Storage Conditions

Store away from light between 2-10°C

ATCC® is a registered trademark of American Type Culture Collection.

Tested in accordance with ISO 11133 and ISO 11290-1