OXOID QUALITY ASSURANCE

PRODUCT SPECIFICATION

HALF FRASER BROTH

Typical Formula

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Quantity (g/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proteose peptone</td>
<td>5.0</td>
</tr>
<tr>
<td>Tryptone</td>
<td>5.0</td>
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<tr>
<td>Lab-Lemco powder</td>
<td>5.0</td>
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<tr>
<td>Yeast extract</td>
<td>5.0</td>
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<tr>
<td>Sodium chloride</td>
<td>20.00</td>
</tr>
<tr>
<td>Di-sodium hydrogen phosphate</td>
<td>12.0</td>
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<tr>
<td>Potassium dihydrogen phosphate</td>
<td>1.35</td>
</tr>
<tr>
<td>Aesculin</td>
<td>1.0</td>
</tr>
<tr>
<td>Lithium chloride</td>
<td>3.0</td>
</tr>
<tr>
<td>Ferric ammonium citrate</td>
<td>0.5</td>
</tr>
<tr>
<td>Acriflavine</td>
<td>0.0125</td>
</tr>
<tr>
<td>Nalidixic acid</td>
<td>0.01</td>
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</tbody>
</table>

Preparation
Suspend all materials in deionised water and heat to 60°C to dissolve. Sterile filter 225ml volumes into sterile 250ml Sirop bottles. When cool, label each bottle and pack in units of 10 in labelled boxes.

Format
Ten sirop bottles with plastic 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

Physical Tests
- pH: 7.2 ± 0.2
- Colour: Dark straw with yellow tinge
- Clarity: Clear
- Fill volume: 225ml + 4ml

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

Sterility Test
Macroscopic examination should show no evidence of microbial growth after incubation at 20 - 25°C and 30 -35°C for 5 days.
Bacteriological Tests Using Optimum Inoculum Dilution

Results after incubation at 30°C for 24 hours ± 2 hours
Inoculum less than 100 colony forming units

Listeria monocytogenes  ATCC 19111

Listeria monocytogenes  ATCC 7644

After incubation the product is diluted and counts are performed on Columbia Blood Agar Base. Counts must be equal to or greater than $6 \times 10^5$/ml.

Inoculum less than $1 \times 10^4$ colony forming units

Listeria monocytogenes  ATCC 19111  Turbid growth with aesculin hydrolysis
Listeria monocytogenes  ATCC 7644  Turbid growth with aesculin hydrolysis

Inoculum greater than 10,000 colony forming units

Escherichia coli  ATCC 25922  No aesculin hydrolysis
Enterococcus faecalis  ATCC 29212  No aesculin hydrolysis

Storage conditions
Store away from light at between 2 - 25°C.