**M-Filter Rinse Broth**

M-Filter Rinse Broth is used as a rinsing fluid in the membrane filtration procedure.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptic digest of animal tissue</td>
<td>5.000</td>
</tr>
<tr>
<td>Meat extract</td>
<td>3.000</td>
</tr>
<tr>
<td>Polysorbate 80</td>
<td>1.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>6.9±0.2</td>
</tr>
</tbody>
</table>

**Directions**

Suspend 9 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If desired add up to 9 g/litre of Polysorbate 80 and filter the broth medium before autoclaving.

**Principle And Interpretation**

The membrane filter technique is highly reproducible, can be used to test relatively large sample volumes and usually yields numerical results more rapidly than the multiple tube fermentation procedure. The membrane filter technique is extremely useful in monitoring drinking water and a variety of natural waters. M-Filter Rinse Broth complies with the formulation as described in USP (1). After membrane filtration it is often necessary to rinse the membrane filter in order to remove residues of liquid sample materials. Use of this medium is recommended if the sample contains higher hydrocarbons or fats.

The rinsing fluid protects the microorganisms retained by the filter from physiological shock, thus enabling microbes to grow rapidly. Polysorbate 80 emulsifies the carbohydrate and fats without harming the microorganisms. If the sample contains large quantities of carbohydrates or fats, additional quantities of polysorbate 80 up to 9.0 gm/litre can be added to the broth medium in accordance with USP recommendations.

After filtering the liquid sample, rinse the filter 3 times with 100 ml portions of the M-Filter Rinse Broth, then complete the test in usual way.

**Quality Control**

**Appearance**
Cream to yellow homogeneous free flowing powder

**Colour and Clarity of prepared medium**
Light yellow coloured clear solution forms in tubes

**Reaction**
Reaction of 0.9% w/v aqueous solution at 25°C. pH : 6.9±0.2

**pH**
6.70-7.10

**Cultural Response**
M1323: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Citrobacter freundii</em> ATCC 8090</td>
<td>good</td>
</tr>
<tr>
<td><em>Escherichia coli</em> ATCC 25922</td>
<td>good</td>
</tr>
<tr>
<td><em>Enterococcus faecalis</em> ATCC 29212</td>
<td>good</td>
</tr>
</tbody>
</table>
Pseudomonas aeruginosa  
ATCC 27853  
Staphylococcus aureus  
ATCC 25923  
Streptococcus pyogenes  
ATCC 19615  

**Storage and Shelf Life**
Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

**Reference**

---

**Disclaimer**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.