Standard Plate Count Medium w/ TTC
(without Membrane Filter)

For total bacterial detection and enumeration with added growth indicator.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casein enzymic hydrolysate</td>
<td>5.000</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>2.500</td>
</tr>
<tr>
<td>Dextrose</td>
<td>1.000</td>
</tr>
<tr>
<td>2,3,5-Triphenyl tetrazolium chloride</td>
<td>0.100</td>
</tr>
</tbody>
</table>

**Formula adjusted, standardized to suit performance parameters**

**Directions**

The test sample should be filtered through a sterile membrane filter having pore size of 0.22µ / 0.45µ. Rehydrate the nutrient pad with 2.0 - 2.5 ml sterile distilled / purified water. After filtration, remove the membrane filter aseptically using sterile forceps. Place the membrane filter on rehydrated nutrient pad. Incubate the inoculated nutrient. Interpret the results qualitatively by observing the presence or absence of growth and quantitatively by counting the number of colonies on the surface of the membrane filter and calculating CFU/ml.

**Principle And Interpretation**

Field of Application: Water, milk, food and other samples, waste water, beverages. DriFilter Membrane Nutrient Pad Medium is ready to use sterile culture media in the form of a 50 mm biological inert absorbent pads impregnated with Standard Plate Count medium, then dried and sterilized in 55 mm petri plate. They eliminate the need of laborious media preparation and autoclaving procedures. The nutrient pads are to be just rewetted with sterile distilled water and are ready to use. Use of nutrient pads allows larger sample volumes to be tested at a time. Interpretation of results is directly by counting the CFUs and also quantifies the microbial load present in the sample. MF002, Standard Plate Count Medium w/ TTC has growth indicator as TTC (2,3,5-Triphenyl tetrazolium chloride) due to which the colonies can be visualized as red to maroon in colour hence ease in detection and further enumeration. The medium contains casein enzymic hydrolysate and yeast extract which supply necessary nitrogenous source to growing organisms. Dextrose serves as a carbon and energy source.

**Quality Control**

**Appearance**
Dry filter membrane pad of 50mm diameter

**Colour**
Pale coloured nutrient pad

**Sterility test**
Passes release criteria

**Cultural response**
Cultural characteristics observed after incubation at 35-37°C for 18-24 hours

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth</th>
<th>Colour of colony</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Escherichia coli</em> ATCC 25922</td>
<td>Luxuriant</td>
<td>Red to maroon</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em> ATCC 25923</td>
<td>Luxuriant</td>
<td>Red to maroon</td>
</tr>
</tbody>
</table>

Please refer disclaimer Overleaf.
Enterococcus faecalis ATCC 29212

Luxuriant Red to maroon

Storage and Shelf Life
Store between 10-30°C. Use before expiry date on the label.

Reference