Soyabean Casein Digest Medium
(without Membrane Filter)

For total bacterial detection and enumeration.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pancreatic digest of casein</td>
<td>17.000</td>
</tr>
<tr>
<td>Papaic digest of soyabean meal</td>
<td>3.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.000</td>
</tr>
<tr>
<td>Dextrose</td>
<td>2.500</td>
</tr>
<tr>
<td>Dibasic potassium phosphate</td>
<td>2.500</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, waste water, milk & food. 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 Soyabean Casein Digest 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. Soyabean Casein Digest Medium is recommended by various pharmacopeias as a sterility testing and as a microbial limit testing medium (1, 2, 3). This medium is a highly nutritious medium used for cultivation of a wide variety of organisms (4). The combination of pancreatic digest of casein and papaic digest of soyabean meal makes the medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Dextrose and dibasic potassium phosphate serve as the carbohydrate source and the buffer, respectively in the medium. Sodium chloride maintains the osmotic balance of the medium.

**Quality Control**

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

**Colour**
Pale yellow coloured pad

**Sterility test**
Passes release criteria

**Cultural response**
Cultural characteristics observed after incubation at 35-37°C for 18-48 hours
### Organism | Growth | Colour of colony | Growth (at 22 - 28°C for 48-72 hours)
--- | --- | --- | ---
*Staphylococcus aureus* ATCC 25923 | Luxuriant | Colourless | -
*Streptococcus pyogenes* ATCC 19615 | Luxuriant | Colourless | -
*Bacillus subtilis* ATCC 6633 | Luxuriant | Colourless | -
*Neisseria meningitidis* ATCC 13090 | Luxuriant | Colourless | -
*Candida albicans* ATCC 10231 | Colourless | Luxuriant | -

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

### Reference
3. Indian Pharmacopeia, 2007, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.