Soyabean Casein Digest Agar w/ Inhibitor, a general purpose medium used for cultivation of a wide variety of microorganisms, while inhibiting growth of *Staphylococci*.

### Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casein enzymic hydrolysate</td>
<td>15.000</td>
</tr>
<tr>
<td>Papaic digest of soyabean meal</td>
<td>5.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.000</td>
</tr>
<tr>
<td>Sodium deoxycholate</td>
<td>0.500</td>
</tr>
<tr>
<td>Agar</td>
<td>15.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>7.2±0.2</td>
</tr>
</tbody>
</table>

**Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 40.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

### Principle And Interpretation

Soyabean Casein Digest Agar is recommended by various pharmacopoeias as sterility testing medium (1, 2). It is also used for the sensitivity testing by the tube dilution method for antimicrobial agents (3). Gunn et al (4) used this medium for the growth of fastidious organisms and to study haemolytic reaction after addition of 5% v/v blood.

The combination of casein enzymic hydrolysate and papaic digest of soyabean meal makes the medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Sodium chloride maintains the osmotic balance. Sodium deoxycholate inhibits the growth of *Staphylococci*.

### Quality Control

**Appearance**

Cream to yellow homogeneous free flowing powder

**Gelling**

Firm, comparable with 1.5% Agar gel

**Colour and Clarity of prepared medium**

Light yellow to medium amber coloured clear to slightly opalescent gel forms in Petri plates

**Reaction**

Reaction of 4.05% w/v aqueous solution at 25°C. pH : 7.2±0.2

**pH**

7.00-7.40

### Cultural Response

M1572: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
<th>Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Bacteroides vulgatus ATCC 8482</em></td>
<td>50-100</td>
<td>luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td><em>Candida albicans ATCC 10231</em></td>
<td>50-100</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td><em>Neisseria meningitidis ATCC 13090</em></td>
<td>50-100</td>
<td>luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td><em>Staphylococcus aureus ATCC 25923</em></td>
<td>&gt;=10³</td>
<td>inhibited</td>
<td>0%</td>
</tr>
</tbody>
</table>

Please refer disclaimer Overleaf.
Staphylococcus aureus  
ATCC 25923  
>=10³ inhibited 0%

Streptococcus pyogenes  
ATCC 19615  
50-100 good-luxuriant >=50%

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

Reference
2. Indian Pharmacopoeia, 2007, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.

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