Aeromonas Starch DNA Agar Base

**Intended use**
Aeromonas Starch DNA Agar Base is recommended for selective isolation and enumeration of *Aeromonas* species from food and clinical samples.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptone</td>
<td>15.000</td>
</tr>
<tr>
<td>Soya peptone</td>
<td>5.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.000</td>
</tr>
<tr>
<td>Corn starch</td>
<td>10.000</td>
</tr>
<tr>
<td>Deoxyribonucleic acid (DNA)</td>
<td>2.000</td>
</tr>
<tr>
<td>Agar</td>
<td>15.000</td>
</tr>
<tr>
<td><strong>Final pH (at 25°C)</strong></td>
<td>7.5±0.2</td>
</tr>
</tbody>
</table>

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

**Directions**
Suspend 52.0 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. Cool to 45-50°C and aseptically add rehydrated contents of 1 vial of Ampicillin Supplement (FD082). Mix well and pour into sterile Petri plates.

**Principle And Interpretation**
*Aeromonas* species occur widely in soil and water where these species cause disease in fish and amphibians. Also found in untreated and chlorinated drinking water, raw food and raw milk (3, 4). It is observed that the major cause of gastrointestinal infections by *Aeromonas* species (4, 5) is because of ingesting infected water (6, 7).

It was noted that the recoveries of the *Aeromonas* species was very low from fresh foods of animal origin when cultivated on clinical media and difficulties were encountered in distinguishing the *A. hydrophila* group from the background microflora. Polumbo et al had formulated Starch Ampicillin (SA) Agar with starch hydrolysis as the differential triat and ampicillin to suppress the background microflora (1). Aeromonas Starch DNA Agar Base allows additional selective isolation of *Aeromonas* based on DNA hydrolysis (2).

Peptone and Soya Peptone provide essential nitrogen and carbon source, long chain amino acid, vitamins and other essential nutrients. Sodium chloride maintains osmotic equilibrium

**Type of specimen**
Clinical samples - faeces; foods; water samples

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (11,12)
For food , follow appropriate techniques for sample collection and processing as per guidelines (8,9)
For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards(10).
After use, contaminated materials must be sterilized by autoclaving before discarding.

**Warning and Precautions**
In Vitro diagnostic Use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guildeines should be followed while handling clincial specimens. Saftey guidelines may be referred in individual safety data sheets

**Limitations**
1. **Beep op pg Bn qijm mt lfr vsf cs sps tnh of pphop pgB spn poh tloh up Tn jofl dpobn johg qusb**
2. It is advised to incubate for recommended period and temperature to avoid misintepretation of results.
Performance and Evaluation
Performance of the medium is expected when used as per the direction on the label within expiry period when stored at the recommended temperature.

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 coloured clear to slightly opalescent gel forms in Petri plates
Reaction
Reaction of 5.20% w/v aqueous solution at 25°C. pH : 7.5±0.2
pH
7.30-7.70
Cultural Response
M1284: Cultural characteristics observed after an incubation at 35-37°C for 24 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
<th>Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aeromonas hydrophila ATCC 7966</td>
<td>50-100</td>
<td>luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td>Escherichia coli ATCC 25922</td>
<td>&gt;=10⁴</td>
<td>inhibited</td>
<td>0%</td>
</tr>
<tr>
<td>Staphylococcus aureus ATCC 25923</td>
<td>&gt;=10⁴</td>
<td>inhibited</td>
<td>0%</td>
</tr>
</tbody>
</table>

Key : *Corresponding WDCM numbers.

Storage and Shelf Life
Store below 30°C in a tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle inorder to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition Seal the container tightly after use. Use before expiry date on the label. Product performance is best if used within stated expiry period.

Disposal
User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory technique (11,12)

Reference

Please refer disclaimer Overleaf.
In vitro diagnostic medical device

CE Marking

Storage temperature

Do not use if package is damaged

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