CLOSTRIDIUM BOTULINUM ISOLATION AGAR BASE

Product Number C8345

Product Description
Clostridium Botulinum Isolation Agar Base with supplements is recommended for selective isolation of *Clostridium botulinum* from food samples. This organism is found in soils and in ocean and lake sediment, therefore increasing the possibility food may be contaminated from these sources. Casein enzymic hydrolysate and yeast extract supply amino acids, nitrogenous compounds and vitamin B complex. Dextrose is the fermentable carbohydrate. Disodium phosphate helps in buffering the medium while magnesium sulphate helps for the sporulation of the organisms. Sodium chloride maintains osmotic equilibrium of the medium. The Egg Yolk Emulsion (E7889) helps in detecting lecithinase, lipase and proteolytic activity. The Clostridium Botulinum Isolation Agar Base Supplement (C3722) makes the agar base very selective.

Components

<table>
<thead>
<tr>
<th>Item</th>
<th>g/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casein Enzymic Hydrolysate</td>
<td>40.00</td>
</tr>
<tr>
<td>Yeast Extract</td>
<td>5.00</td>
</tr>
<tr>
<td>Dextrose</td>
<td>2.00</td>
</tr>
<tr>
<td>Disodium Phosphate</td>
<td>5.00</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>2.00</td>
</tr>
<tr>
<td>Magnesium Sulphate</td>
<td>0.01</td>
</tr>
<tr>
<td>Agar</td>
<td>20.00</td>
</tr>
</tbody>
</table>

Final pH (at 25°C) 7.4 ± 0.2

Precautions and Disclaimer
For laboratory use only. Not for drug, household or other uses.

Preparation Instructions
Suspend 37 grams of Clostridium Botulinum Isolation Agar Base in 450 mls of distilled water. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes. Cool to 50-55°C. Aseptically add 50 mls of sterile (E7899) Egg Yolk Emulsion and the reconstituted contents (in 2.0 ml ethanol) of one vial of (C3722) Clostridium Botulinum Isolation Agar Base Supplement (C.B. I. Supplement) to the agar base. The C.B.I. Supplement can also be prepared by mixing 125.0 mg D-Cycloserine (C6880), 38.0 mg of Sulphamethoxazole (S7507) and 2.0 mg of Trimethoprim (T7883) in 2.0 ml of ethanol. Mix well and pour into sterile petri plates.

Storage
Store the dehydrated medium at 24°C and prepared medium at 2-8°C.

Product Profile
Appearance Light yellow colored, homogeneous, free flowing powder.
Gelling Firm.
Color and Clarity Basal medium yields a yellow colored slightly opalescent gel. With the addition of egg yolk emulsion and the C.B.I. supplement, a light colored opalescent gel forms in petri plates.
Cultural Response Cultural characteristics are observed after 48 hours at 35°C when incubated anaerobically.

Organism (ATCC) Growth Lecithinase
*Clostridium botulinum*(25763) good-luxuriant +

References
3. American Type Culture Collection, Manassas, Va. U.S.A.