Super Growth Top Agar

Super Growth Top Agar is an extremely rich medium for obtaining high yields of lambda bacteriophage in liquid lysates.

Composition** :

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Grams/Litre</th>
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</thead>
<tbody>
<tr>
<td>Tryptone</td>
<td>35.00</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>20.00</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.00</td>
</tr>
<tr>
<td>Agar</td>
<td>7.00</td>
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</tbody>
</table>

** Formula adjusted, standardized to suit performance parameters

Directions :
Suspend 67 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 dispense as desired

Principle and Interpretation :
Super Growth Top Agar is an extremely rich medium for obtaining high yields of lambda bacteriophage. This media contains tryptone, yeast extract and sodium chloride. Tryptone and yeast extract provide nitrogenous compounds, vitamin B complex and other essential growth nutrients. Sodium chloride maintains osmotic equilibrium. This media was developed by Botstein, D. et al. (1) which contains 3.5 times more tryptone and 4 times more yeast extract. Therefore, Super Growth Top Agar is very rich in tryptone and yeast extract. Top agar is used to distribute bacteriophage and bacterial cells uniformly on the thin layer over the surface of a plate. Top agar contains less amount of agar than usual plates and so stays in a molten state for several days when it is kept at 45° to 50°C.

Quality Control :

Appearance of Powder :
Cream to yellow coloured, homogeneous, free flowing powder.

Gelling :
Firm, comparable with 0.7% Agar gel.

Colour and Clarity :
Light yellow coloured, clear to slightly opalescent gel forms in Petri plates.

Cultural Response :
Cultural characteristics observed after an incubation at 35-37°C for 18 - 48 hours.

Please refer disclaimer Overleaf
Organisms (ATCC)

*Escherichia coli* ATCC 23724  
*Escherichia coli* ATCC 25922  
*Escherichia coli* MTCC1652

Growth  
good-luxuriant

good-luxuriant

good-luxuriant

Storage and Shelf-life:

Store below 30°C and the prepared medium at 2 - 8°C. Use before expiry date on the label.

References:


Disclaimer:

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