YT Growth Medium

YT Growth Medium is an optimized formulation for the growth and maintenance of M13 phage or other filamentous ss DNA bacteriophages.

Composition** :

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Grams/Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tryptone</td>
<td>8.00</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>5.00</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.00</td>
</tr>
</tbody>
</table>

** Formula adjusted, standardized to suit performance parameters

Directions :

Suspend 18 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 :

YT Growth Medium is an optimized formulation for the growth and maintenance of M13 phage or other filamentous ss DNA bacteriophages. This media was originally formulated as a nutritionally enriched growth medium for growth of recombinant strains of Escherichia coli and can also be used for propagation of M13 bacteriophage (1-2). It permits larger quantity of phage production without exhausting the host. Yeast extract and tryptone provide all the required amino acids, nucleotide precursors, vitamins and other metabolites and as a result the cells grow faster in this medium. Sodium chloride provides sodium ions for transport and osmotic balance.

Quality Control :

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

Colour and Clarity :
Light yellow coloured, clear solution without any precipitate.

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:


Storage temperature

10°C  30°C

Do not use if package is damaged

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Disclaimer:

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