

Technical Information

Super Growth Agar

Product Code: G1002

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

Composition**

Ingredients	Grams/Litre
Tryptone	35.00
Yeast extract	20.00
Sodium chloride	5.00
Agar	15.00

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 75 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 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 Agar is very rich in tryptone and yeast extract.

Quality control

Appearance of Powder :

Cream to yellow coloured, homogeneous, free flowing powder.

Gelling :

Firm, comparable with 1.5% 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

Organisms (ATCC)

Escherichia coli ATCC 23724

Escherichia coli ATCC 25922

Escherichia coli MTCC 1652

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 :

1. Botstein, D. et al, Mol. Biol., 91, 439, (1975)

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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