

## Super Growth Agar

G002

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

### Directions :

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.

Please refer disclaimer Overleaf

#### Registered Office

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### Organisms (ATCC)

*Escherichia coli* ATCC 23724

*Escherichia coli* ATCC 25922

*Escherichia coli* MTCC1652

### Growth

good-luxuriant

good-luxuriant

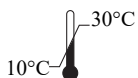
good-luxuriant

### Storage and Shelf-life :

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

### References :

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



Storage temperature



Do not use if package is damaged



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