

## Technical Information

### Super Growth Medium

#### Product Code: G1001

Super Growth Medium 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

\*\* Formula adjusted, standardized to suit performance parameters

#### Methodology

Suspend 60 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

#### Principle and Interpretation

Super Growth Medium is an extremely rich medium for obtaining high yields of lambda bacteriophage in liquid lysates. 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 Media is very rich in tryptone and yeast extract.

#### Quality control

##### Appearance of Powder :

Cream to yellow coloured, homogeneous, free flowing powder.

##### Colour and Clarity :

Light yellow coloured, clear solution without any precipitate.

##### Reaction :

Reaction of 6.0% w/v aqueous solution is pH 7.5 ± 0.2 at 25°C.

##### 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

##### Inoculum(CFU)

50 – 100

50 – 100

50 – 100

##### Growth

good-luxuriant

good-luxuriant

good-luxuriant

#### Storage and Shelf Life

Store below 30°C in tightly closed container 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.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.