

Super Growth Medium

G001

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

Directions :

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.

Please refer disclaimer Overleaf

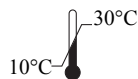
Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Escherichia coli</i> ATCC 23724	50 - 100	good-luxuriant
<i>Escherichia coli</i> ATCC 25922	50 - 100	good-luxuriant
<i>Escherichia coli</i> MTCC 1652	50 - 100	good-luxuriant

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)



Storage temperature



Do not use if package is damaged



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