

Technical Information

LB Growth Agar for Lambda

Product Code: G1030

LB Growth Agar for Lambda is used for lambda phage.

Composition**:

Ingredients	Grams/Litre
Tryptone	10.00
Yeast extract	5.00
Sodium chloride	10.00
MgSO ₄ . 7H ₂ O	2.00
Agar	15.00

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 40.97 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 :

LB Growth Agar for Lambda is used for lambda phage. The three main components of this media are 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. In LB Growth Agar media Mg²⁺ is added to enhance adsorption of phage lambda to the cells. Tryptone and Yeast extract do not contain enough Mg²⁺ for optimal adsorption.

Quality control

Appearance of Powder :

Cream to yellow coloured, homogeneous, free flowing powder.

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.

Reference

1. Assubel, F.M., R. Brent, R.E. Kingston, D.D. Moore, J.G. Seidman, J.A. Smith and K. Struhl, Current protocols in molecular biology, vol. 1, Current Protocols, New York, (1994)
2. Davis, L.G., M.D. Dibner and J.F. Battey, Basic methods in molecular biology, Elsevier, new York, (1986).

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