



Luria HiVeg Broth

MV575

Luria HiVeg Broth is recommended for the cultivation and maintenance of recombinant strains of *Escherichia coli*.

Composition**

Ingredients	Gms / Litre
HiVeg hydrolysate	10.000
Yeast extract	5.000
Sodium chloride	5.000
Final pH (at 25°C)	7.0±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 20 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes or flasks or as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Luria HiVeg Broth is prepared by incorporating vegetable peptone in place of animal peptone, making the medium BSE-TSE risks free. This can be used for the same purpose of Luria Broth, one of the many modifications of the formulation of Luria (1,2). It is generally used for the cultivation and maintenance of recombinant *E.coli* strains in molecular biology and genetic studies. This contains half the concentration of sodium chloride than in Luria Broth, Miller (3). Therefore as per choice, the sodium chloride concentration can be altered. Recombinant *E.coli* is specifically mutated to create an auxotrophic strain that cannot grow on a nutritionally deficient medium. Luria HiVeg Broth is a nutritionally rich medium due to the presence of HiVeg hydrolysate and yeast extract that allow these strains to grow rapidly. Sodium chloride maintains the osmotic balance of the medium.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of Prepared medium

Yellow to amber coloured clear solution in tubes

Reaction

Reaction of 2.0% w/v aqueous solution at 25°C. pH : 7.0±0.2

pH

6.80-7.20

Cultural Response

Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 24 hours.

Cultural Response

Organism	Growth	Inoculum (CFU)
Cultural Response		
<i>Escherichia coli</i> ATCC 23724	luxuriant	50-100
<i>Escherichia coli</i> DH5 alpha MTCC 1652	luxuriant	50-100
<i>Escherichia coli</i> ATCC 25922	luxuriant	50-100

Storage and Shelf Life

Store below 30°C in tightly close container and prepared medium at 2-8°C. Use before expiry period on the label.

Reference

- 1.Luria, S. E. and W., Burrous J. 1957. J. Bacteriol., 74: 461-476.
- 2.Lennox, E.S. 1955. Virology, 1.
- 3.Miller. 1972. Cold Spring Harbor, N.Y. : Cold Spring Harbor Laboratory.

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