



Luria Bertani HiVeg™ Broth

LQ127

Recommended for the cultivation and maintenance of recombinant strains of *Escherichia coli* and may be used for routine cultivation of not particularly fastidious microorganisms.

Composition**

Ingredients	Gms / Litre
HiVeg™ hydrolysate	17.000
Yeast extract	3.000
Sodium chloride	5.000
Final pH (at 25°C)	7.5±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Label the ready to use LQ127 tube. Inoculate the sample and Incubate at specified temperature and time.

Principle And Interpretation

Luria Bertani HiVeg™ Broth is prepared by replacing tryptone with HiVeg™ hydrolysate which is free of BSE/TSE risks. Luria Bertani HiVeg™ Broth (1) is slightly different with double amount of sodium chloride as compared to original media described by Lennox (4). This medium is nutritionally rich for the growth of pure cultures

of recombinant strains. Strains which are generally derived from *Escherichia coli* K12 are deficient in Vitamin B synthesis and are unable to grow on nutritionally deficient media.

HiVeg™ hydrolysate provides nitrogen and carbon compounds amino acids while Vitamin B complex is provided by yeast extract. Sodium chloride provides sodium ions for the membrane transport and maintains osmotic equilibrium of the medium.

Type of specimen

Recombinant strains of *E.coli*

Specimen Collection and Handling

For recombinant strains of *E.coli*, follow appropriate techniques for sample collection, processing as per pharmaceutical guidelines (2,3).

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations

1. Some species may show poor growth due to nutritional variations.
2. Further biochemical tests must be carried out for complete identification.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality Control

Appearance

Sterile Luria Bertani HiVeg™ Broth in bottles.

Colour

Yellow to amber coloured solution in bottles.

Quantity of Medium

10 ml of medium in tube.

pH

7.30-7.70

Sterility Test

Passes release criteria.

Cultural response

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

Organism	Inoculum (CFU)	Growth
Cultural Response		
<i>Escherichia coli</i> ATCC 23724	50-100	luxuriant
<i>Escherichia coli</i> ATCC 25922 (00013*)	50-100	luxuriant
<i>Escherichia coli</i> DH5 alpha MTCC 1652	50-100	luxuriant

Key : (*) Corresponding WDCM numbers.

Storage and Shelf Life

Store between 15-25°C. Use before expiry date on the label.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (2,3).

Reference

1. Atlas R.M., 1983, Handbook of Microbiological Media, Ed. By Parks L., CRC Press, Inc.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
4. Lennox E.S., Transduction of Linked Genetic Characters of the host by bacteriophage P1., Virology, 1:190.

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Disclaimer :

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