

Hartley Broth

LQ013

Intended use

For the recovery of anaerobic and facultative microorganisms. *sterile, in bottles* .

Composition**

Ingredients	Gms / Litre
HM hydrolysate #	29.000
Final pH (at 25°C)	7.6±0.2
# Equivalent to Tryptic digest of heart muscle	

**Formula adjusted, standardized to suit performance parameters

Directions

Label the ready to use LQ013 bottle. Inoculate the sample and Incubate at specified temperature and time.

Principle And Interpretation

Hartley (4) described the value of HM hydrolysate for the production of diphtheria toxin. Since then it is used as a general-purpose broth, capable of initiating the growth of demanding (fastidious) organisms from a small inocula. Hartleys Digest Broth can be used for the recovery of fastidious organisms such as Group A, C, G Streptococci and *Streptococcus pneumoniae* from small inocula. Douglas (2) used the same medium to recover *Corynebacterium diphtheriae*, while Monckton (6) used it in an enrichment medium for *C. diphtheriae*. Hartleys Digest Broth may be used for cultivation of blood samples, sterility testing, production of diphtheria toxin etc.

Type of specimen

Clinical sample: Blood

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (3,5). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

In Vitro diagnostic use only. 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 clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations

1. Further biochemical and serological testing is required 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 clear Hartley Broth in glass bottle.

Colour

Light yellow coloured clear solution

Quantity of Medium

20 ml of medium in glass bottle. (Volume of blood for paediatrics use - 1 to 3 ml)

Reaction

7.40- 7.80

Sterility test

Passes release criteria

Cultural response

Cultural characteristics was observed after incubation at 35-37°C for 24-48 hours.

Organism**Growth**

Streptococcus pneumoniae ATCC 6303 Luxuriant

Streptococcus pyogenes ATCC 19615 Luxuriant

Staphylococcus aureus subsp. *aureus* ATCC 25923 (00034*) Luxuriant

Corynebacterium diphtheriae ATCC 11913 Luxuriant

Key : (*) Corresponding WDCM numbers

Storage and Shelf Life

On receipt store between 15-25°C. Use before expiry date on the label

Product performance is best if used within stated expiry period.

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 sample must be decontaminated and disposed of in accordance with current laboratory techniques (3,5).

Reference

1. Cruickshank R., 1962, "Mackie and McCartney's Handbook of Bacteriology" 10th Ed., Livingstone Ltd., Edinburgh and London, pp. 192.
2. Douglas S. R., 1922-23, Brit. J. Expt. Pathol., 3:263.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
4. Hartley P., 1922, J. Path. Bact., 25:479.
5. 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.
6. Monckton J. C., 1947, Bull Inst. Med. Lab. Technol., 13(1):2.

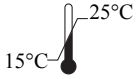
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In vitro diagnostic medical device



CE Marking



Storage temperature



Do not use if package is damaged



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