

TECHNICAL DATA SHEET

Hartley's Digest Broth

Principle

Hartley (1922) described the importance of tryptic digest of heart muscle for the production of diphtheria toxin. Subsequently, then it is used as a general-purpose broth for initiating the growth of fastidious organisms from a small inocula. Hartley's Digest Broth can be used for the recovery of fastidious organisms such as Group Streptococci. Hartley's Digest Broth is also used for cultivation of blood samples, sterility testing, production of diphtheria toxin etc. Hartleys Digest Broth is prepared as per the method described by Cruickshank (1962). It provides nitrogenous and carbonaceous compounds, long chain amino acids, vitamins and other essential nutrients necessary for the growth of microorganisms.

Use: For cultivation of various bacteria from blood especially Streptococci & Corynebacterium diphtheriae

Contents*

Ingredients	Gram/Litre
Special Peptone	29.00
pH at 25°C	7.6 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 29.0 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute in desired. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

Specimens' types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

OXFORD LAB FINE CHEM LLP

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Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Light Beige colored free flowing, homogeneous powder
Reaction of 2.90% solution	7.6 $\pm$ 0.2 at 25 °C
pH	7.40- 7.80
Color and clarity of ready medium	Light amber colored opalescent solution
Growth Promotion properties	Best at $\leq$ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at $\leq$ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

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

Organism	ATCC	Inoculum (CFU)	Growth
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant
<i>Staphylococcus pneumoniae</i>	6303	50-100	Luxuriant
<i>Corynebacterium diphtheriae</i>	11913	50-100	Luxuriant

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

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Reference

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2. Douglas S. R., (1922-23), Brit. J. Expt. Pathol., 3:263.
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4. 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.

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