

Technical Data

Hartleys Digest Broth

M551

Hartleys Digest Broth is recommended as general-purpose medium for the cultivation of a wide variety of bacteria from blood especially fastidious Streptococci and *Corynebacterium diphtheriae* .

Composition**

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

^{**}Formula adjusted, standardized to suit performance parameters

Directions

Suspend 29 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Hartley (1) described the value of tryptic digest of muscle 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 (3) used the same medium to recover *Corynebacterium diphtheriae*, while Monckton (2) 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.

Hartleys Digest Broth is prepared as per the method described by Cruickshank (4) by the tryptic digestion of de-fatted, fresh ox-heart under controlled conditions.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured, clear solution without any precipitae

Reaction

Reaction of 2.9% w/v aqueous solution at 25°C. pH : 7.6 ± 0.2

pН

7.40-7.80

Cultural Response

M551: Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours .

Organism	Inoculum (CFU)	Growth
Corynebacterium	50-100	luxuriant
diphtheriae ATCC 11913		
Enterococcus faecalis ATCC	C 50-100	luxuriant
29212		
Staphylococcus aureus	50-100	luxuriant
ATCC 25923		
Streptococcus pneumoniae	50-100	luxuriant
ATCC 6303		
Streptococcus pyogenes	50-100	luxuriant
ATCC 19615		

Storage and Shelf Life

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

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Reference

- 1. Hartley P., 1922, J. Path. Bact., 25:479.
- 2. Monckton J. C., 1947, Bull Inst. Med. Lab. Technol., 13(1):2.
- 3.Douglas S. R., 1922-23, Brit. J. Expt. Pathol., 3:263.
- 4. Cruickshank R., 1962, "Mackie and McCartneys Handbook of Bacteriology" 10th Ed., Livingstone Ltd., Edinburgh and London, pp. 192.

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