

Technical Information

Hartley's Digest MiVeg Broth

Product Code : VM1551

Application:- Hartley's Digest MiVeg Broth is recommended as a general purpose medium for the cultivation of a wide range of microorganisms from blood especially fastidious *Streptococci* and *Corynebacterium diphtheriae*.

Composition

| Ingredients | Gms / Litre |
|------------------------|-------------|
| MiVeg special infusion | 29.00 |
| Final pH (at 25°C) | 7.6 ± 0.2 |

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

This medium is prepared by adding MiVeg special infusion in place of tryptic digest of heart muscle thus making the medium free from BSE/TSE risks. Hartley's Digest MiVeg Broth is the modification of the medium described by Hartley (1) for the production of diphtheria toxin. Since then it is used as a general purpose broth, capable of initiating the growth of fastidious organisms from small inoculum.

Hartley's Digest MiVeg Broth can be used for the recovery of fastidious organisms such as Group A, C, G *Streptococci* and *Streptococcus pneumoniae* from small inocula. It can also be used to recover *Corynebacterium diphtheriae*.

Monckton(2) used it as enrichment medium for the same organism. It may be used for cultivation of blood samples, sterility testing, production of diphtheria toxin etc.

Methodology

Suspend 29 grams of powder media in 1000 ml distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Colour and Clarity of prepared medium

Light yellow coloured, clear solution without any precipitate.

Reaction

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

pH Range

7.4 - 7.8

Cultural Response/Characteristics

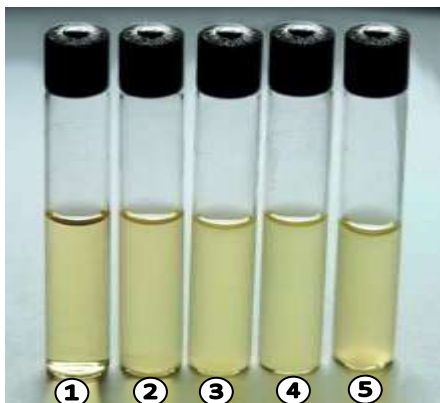
Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.

| Organisms (ATCC) | Inoculum (CFU) | Growth |
|--|----------------------------------|-----------|
| <i>Corynebacterium diphtheriae</i> (11913) | 10 ² -10 ³ | luxuriant |
| <i>Enterococcus faecalis</i> (29212) | 10 ² -10 ³ | luxuriant |
| <i>Staphylococcus aureus</i> (25923) | 10 ² -10 ³ | luxuriant |
| <i>Streptococcus pneumoniae</i> (6303) | 10 ² -10 ³ | luxuriant |
| <i>Streptococcus pyogenes</i> (19615) | 10 ² -10 ³ | luxuriant |

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 day.



VM1551 Hartley's Digest M i Veg Broth

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|---------------------------------------|------------------------------------|
| 1. Control | 4. <i>Staphylococcus aureus</i> |
| 2. <i>Corynebacterium diphtheriae</i> | 5. <i>Streptococcus pneumoniae</i> |
| 3. <i>Enterococcus faecalis</i> | |

Further Reading

1. Hartley P., 1922, J. Path. Bact., 25:479.
2. Monckton J.C., 1947, Bul Inst. Med. Lab. Technol., 13(1):2

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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