

Chopped Liver HiVeg™ Broth

MV606

Chopped Liver HiVeg Broth is used for the cultivation and enrichment of anaerobic bacteria from food specimen.

Composition ** :

Ingredients	Grams/Litre
HiVeg infusion	100.0
HiVeg peptone	10.0
Dipotassium phosphate	1.0
Starch, soluble	1.0

Final pH (at 25°C) 7.0 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Directions :

Suspend 11.2 grams in 100 ml distilled water. Mix thoroughly to wet and allow the mixture to soak for 15 minutes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 20 minutes. Exhaust for 20 minutes in free flowing steam before use.

Principle and Interpretation :

This medium is prepared by completely replacing animal based peptones by vegetable peptones that are free of BSE/TSE risks. Chopped Liver HiVeg Broth is the modification of Chopped Liver Broth formulated in accordance with APHA (1) for cultivation and enrichment of *Clostridium* species from foods.

Liquid foods are directly inoculated or solid foods are grinded first and then inoculated into this enrichment



MV606 Chopped Liver HiVeg Broth

- 1. Control
- 2. *Clostridium botulinum*
- 3. *Clostridium perfringens*

Product Profile :

Vegetable based (Code MV) ©	Animal based (Code M)
MV606 HiVeg infusion HiVeg peptone	M606 Beef liver Peptic digest of animal tissue

Recommended for : Cultivation and enrichment of anaerobic bacteria from food specimen.

Reconstitution : 112.0 g/l

Quantity on preparation (500g) : 4.46 L

pH (25°C) : 7.0 ± 0.2

Supplement : None

Sterilization : 121°C / 20 minutes.

Storage : Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.

medium. One to two grams of solid or 1 to 2 ml of liquid food is added per 15 ml of enrichment broth and incubation is carried out at 26 - 28°C upto 7 days under anaerobic conditions. If no growth is observed after 7 days the culture medium is further incubated for 10 days to allow delayed germination of spores.

HiVeg infusion and HiVeg peptone provide nitrogenous nutrients that support bacterial growth. Phosphate is incorporated to maintain the pH of the medium whereas soluble starch serve as complex carbon sources.

Quality Control :

Appearance of powder

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

Colour and Clarity

Yellow coloured, clear solution without any precipitate.

Reaction

Reaction of 11.2% w/v aqueous solution is pH 7.0 ± 0.2 at 25°C.

Cultural Response

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

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Clostridium botulinum</i> (25763)	10 ² -10 ³	good
<i>Clostridium perfringens</i> (12924)	10 ² -10 ³	good

References :

- 1. Downes FP and Ito K (Eds.), 2001, Compendium of Methods For The Microbiological Examination of Foods, 4th ed., APHA, Washington, D.C.