

**Modified V.P. HiVeg™ Broth****MV637**

Modified V.P. HiVeg Broth is used for performing V.P. test.

**Composition \*\* :**

Ingredients	Grams/Litre
HiVeg peptone No. 3	7.0
Glucose	5.0
Sodium chloride	5.0

\*\* Formula adjusted, standardized to suit performance parameters.

**Directions :**

Suspend 17.0 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense 5 ml amounts in test tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

**Principle and Interpretation :**

Modified V.P. HiVeg Broth is prepared by using HiVeg peptone No.3 in place of Proteose peptone, thus making the medium free of BSE/TSE risks. This medium is the modification of Modified V.P. Broth which is prepared as per the formula described by Smith et al (1) and is recommended by APHA (2) for the confirmation of *Bacillus cereus* in foods.

HiVeg peptone No.3 provide nitrogenous nutrients. Glucose is the fermentable carbohydrate and carbon source in the medium. Acetyl methyl carbinol is produced from glucose by the members of *Bacillus cereus* group. After the inoculation and incubation at 35°C for 48 hours, the presence of acetyl methyl carbinol is determined by adding 0.2 ml. of 40% potassium hydroxide and 0.6 ml. of 5% alcoholic alpha-naphthol solution to 1 ml. of culture tube. This reaction is hastened by the addition of a few crystals of creatine by which the purple colour development takes place within 15 minutes.

**Product Profile :**

Vegetable based (Code MV)©	Animal based (Code M)
<b>MV637</b> HiVeg peptone No.3	<b>M637</b> Proteose peptone

**Recommended for** : Performing V.P. test.

**Reconstitution** : 17.0 g/l

**Quantity on preparation (500g)** : 29.41 L

**pH (25°C)** : -

**Supplement** : None

**Sterilization** : 121°C / 15 minutes.

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

**Quality Control :****Appearance of powder**

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

**Colour and Clarity**

Light yellow coloured, clear solution without any precipitate.

**Cultural Response**

Cultural characteristics observed after an incubation at 35-37°C for 18 - 24 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth	VP Test
<i>Bacillus cereus</i> (10876)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant	+

Key : + = Purple colour formation.

**References :**

- Smith N.R., Gordon R.E. and Clark F.E., 1952, Aerobic sporeforming Bacteria, USDA Monograph No. 16, Washington, D.C.
- Frances Pouch Downes and Keith Ito (Eds.), 2001, Compendium of Methods For The Microbiological Examination of Foods, 4<sup>th</sup> ed., APHA, Washington, D.C.