Technical Information

Modified V.P. MiVeg Broth

Product Code : VM1637

Application:- Modified V.P. MiVeg Broth is used for performing Voges Proskauer test.

Composition

Ingredients	Gms / Litre
MiVeg peptone No. 3	7.0
Glucose	5.0
Sodium chloride	5.0

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Modified V.P. MiVeg Broth is prepared by using MiVeg peptone No.3 instead of Proteose peptone , which makes the medium free from 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.

It contains MiVeg peptone No.3 which supplies nitrogenous nutrients. Glucose serve as the source of fermentable carbohydrate and carbon in the medium. The members of *Bacillus cereus* group produces Acetyl methyl from glucose. 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. To make this reaction fast a few crystals of creatine can be added to the culture tube by which the purple colour development takes place within 15 minutes.

Methodology

Suspend 17.0 grams of powder media in 1000 ml distilled water. Mix thoroughly. 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.

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.

Cultural Response/Characteristics

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

Organisms (ATCC)	Inoculum (CFU)	Growth	VP Test
Bacillus cereus (10876)	10^2-10^3	luxuriant	+

Key : + = Purple colour formation.

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: 2-8^0 in sealable plastic bags for 2-5 days.

Further Reading

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

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- User must ensure suitability of the product(s) in their application prior to use.
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