Technical Information

Mehlman's Maintenance MiVeg Medium

Product Code : VM1917

Application:- Mehlman's Maintenance MiVeg Medium is used for maintenance of *Campylobacter* species.

Composition

Ingredients	Gms / Litre
MiVeg peptone No. 3	15.0
Yeast extract	7.5
MiVeg hydrolysate	5.0
Dipotassium phosphate	5.0
Starch, soluble	1.0
Ammonium sulphate	1.5
Neutral red	0.02
Agar	3.0
Final pH (at 25°C)	7.3±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Mehlman's Maintenance MiVeg Medium is prepared by using MiVeg peptone No.3 and MiVeg hydrolysate in place of Proteose peptone & Casein enzymic hydrolysate thus the media becomes free from BSE/TSE risks. This Medium is the modification of Mehlman's Maintenance Medium which is recommended by APHA (1) for the maintenance of *Campylobacter* species. Organisms of the genus *Campylobacter* were originally classified in the genus *Vibrio*. Most strains now associated with acute gastroenteritis in humans and their ability to grow at 42°C were originally described as related *Vibrios* (2).

It contains components like MiVeg peptone No.3, yeast extract and MiVeg hydrolysate which provides nitrogenous compound in the medium. The medium also contains starch but lack the energy source such as dextrose. Neutral red serve as a pH indicator. Dipotassium phosphate maintains the buffering action of the medium.

Methodology

Suspend 38 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Dispense in 8 ml amounts in screw capped tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45 - 50°C and aseptically add 0.2 ml filter sterilized 2.5% sodium sulphite solution to each tube. Mix gently.

Quality Control

Physical Appearance

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

Gelling

Semisolid, comparable with 0.3% Agar gel.

Colour and Clarity of prepared medium

Orange red coloured, clear to slightly opalescent semi solid gel in tubes.

Reaction

Reaction of 3.8% w/v aqueous solution pH: 7.3 ±0.2 at 25°C

pH range

7.1-7.5

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for upto 1 week.

Organisms (ATCC)	Growth
Campylobacter coli (33559)	good-luxuriant
Campylobacter jejuni (29428)	good-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: 2-8^0 in sealable plastic bags for 2-5 days.

Further Reading

1. Speck (Eds.), 1984, Compendium of Methods For The Microbiological Examination of Foods, 2nd ed., APHA, Washington, D.C.
2. King E.O., 1957, J. Infect. Dis., 101 : 119.

Disclaimer :

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