

Mehlman's Maintenance HiVeg™ Medium

MV917

Mehlman's Maintenance HiVeg Medium is recommended for maintenance of *Campylobacter* species.

Composition ** :

Ingredients	Grams/Litre
HiVeg peptone No. 3	15.0
Yeast extract	7.5
HiVeg 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.

Directions :

Suspend 38 grams in 1000 ml distilled water. 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.

Principle and Interpretation :

Mehlman's Maintenance HiVeg Medium is prepared by using HiVeg peptone No.3 and HiVeg hydrolysate which are free from BSE/TSE risks associated with animal based peptones. Mehlman's Maintenance HiVeg 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).

The medium contains nitrogenous nutrients such as HiVeg peptone No.3, yeast extract and HiVeg hydrolysate. The medium also contains starch but lack the energy source such as dextrose. Neutral red is the pH indicator. Dipotassium phosphate helps in maintaining buffering action of the medium.

Product Profile :

Vegetable based (Code MV) ©		Animal based (Code M)	
MV917		M917	
HiVeg peptone No. 3 HiVeg hydrolysate		Proteose peptone Casein enzymic hydrolysate	
Recommended for	:	Maintenance of <i>Campylobacter</i> species.	
Reconstitution	:	38.0 g/l	
Quantity on preparation (500g)	:	13.15 L	
pH (25°C)	:	7.3 ± 0.2	
Supplement	:	Sodium sulphite	
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.

Gelling

Semisolid, comparable with 0.3% Agar gel.

Colour and Clarity

Orange red coloured, clear to slightly opalescent solution.

Reaction

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

Cultural Response

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

Organisms (ATCC)	Growth
<i>Campylobacter coli</i> (33559)	good-luxuriant
<i>Campylobacter jejuni</i> (29428)	good-luxuriant

References :

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.