Technical Information

Modified CPLM MiVeg Medium Base

Product Code : VM1460

Application:- Modified CPLM MiVeg Medium Base with addition of horse serum and antibiotics is used for selective cultivation of *Trichomonas* species.

Composition

Ingredients	Gms / Litre
MiVeg peptone	32.0
Maltose	1.6
MiVeg extract No. 2	20.0
L-Cysteine hydrochloride	2.4
Final pH (at 25°C)	6.0±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Modified CPLM MiVeg Medium Base is prepared by using vegetable peptones instead of animal based peptones therefore the medium becomes free from BSE/TSE risks. This medium is the modification of medium recommended by Johnson and Trussell (1) CPLM (Cysteine-Peptone-Liver infusion-Maltose) Medium which does not contain agar and methylene blue (2).

It contains MiVeg peptone and MiVeg extract No.2 which supplies nitrogenous compounds and other essential nutrients. L-Cysteine hydrochloride serve as a reducing agent. The antibiotics inhibits the bacterial growth and supports the growth of every single protozoon under strictly anaerobic conditions. Under anaerobic conditions massive inocula are required.

Methodology

Suspend 56 grams of powder media in 900 ml Ringer 's solution (¼th strength). Mix thoroughly. Heat if necessary to dissolve the medium completely. Distribute in bottles in 90 ml amounts and sterilize by autoclaving at 10 lbs pressure (115°C) for 10 minutes. Cool to 50°C and add aseptically following (per 90 ml of medium).

1. Sterile inactivated horse serum 10 ml
2. Sterile Penicillin Streptomycin Solution 1 ml
3. Sterile Nystatin Solution 1 ml

Mix gently and distribute in stuitable aliquots with sterile precautions

Penicillin Streptomycin solution:

Penicillin	1 x 1,00,000 units
Streptomycin	0.1 g
Sterile distilled water	10 ml

Nystatin Solution :

Nystatin	5 x 10,000 units
Sterile distilled water	10 ml

The addition of antibiotics is not necessary for routine subcultures but is essential for clinical diagnostic cultures and for isolating axenic cultures.

Quality Control

Physical Appearance

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

Colour and Clarity of prepared medium

Brownish yellow coloured, clear solution without any precipitate.

Reaction

Reaction of 5.6 % w/v aqueous solution pH: 6.0 ±0.2 at 25°C

pH range

5.8-6.2

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for upto 4 days.

Organisms (ATCC)	Inoculum (CFU)	Growth
Trichomonas vaginalis (30001)	10^2-10^3	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. Johnson G. and Trussell R.E., 1943, Proc. Soc. Exp. Biol., 54:245.

2. Mackie and McCartney's Practical Medical Microbiology, 1989, 13th ed., Vol. 2, Churchill Livingstone, London.

Disclaimer :

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