

Modified CPLM HiVeg™ Medium Base (Trichomonas Modified CPLM HiVeg™ Medium Base) MV460

Intended Use:

Recommended for cultivation of *Trichomonas* species with addition of horse serum and antibiotics.

Composition**

Ingredients	g / L
HiVeg™ peptone	32.000
HiVeg™ extract No. 2	20.000
Maltose	1.600
L-Cystine hydrochloride	2.400
Final pH (at 25°C)	6.0±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 56.0 grams in 900 ml Ringer's solution (¼th strength). Heat if necessary to dissolve the medium completely. Distribute in bottles in 90 ml amounts and sterilize by autoclaving at Δ115°C for 10 minutes. Cool to 45-50°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 thoroughly and distribute in suitable aliquots with sterile precautions.	
Penicillin Streptomycin solution	
Penicillin	1 x 1,00,000 units
Streptomycin Sterile	0.1 g
distilled water	10 ml
Nystatin Solution	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

Principle And Interpretation

Trichomonas is a protozoan, similar to bacteria. *Trichomonas vaginalis* is a causative agent of trichomoniasis, the most common protozoan infection in humans. It can infect the vagina and urethra in women, and sometimes the prostate gland in men. The duration of survival of *T. vaginalis* in transport medium is fairly limited. The organisms die rapidly when dried on a swab; an alternative approach is to place the loaded swab promptly into a tube of Trichomonas Culture Medium supplemented with horse serum, penicillin and streptomycin. Media for cultivation of *T. vaginalis* basically provide essential salts, nutrients, reducing agents and antibiotics to inhibit bacterial growth in the absence or in low concentration of oxygen. Johnson and Trussell (1) recommended CPLM (Cystine-Peptone-Liver infusion- Maltose) Medium. This medium was further modified without agar and methylene blue (2). Under strictly anaerobic conditions, this medium supports growth from a single protozoan. Under aerobic conditions, massive inocula are required. *T. vaginalis* is an anaerobe and contains no catalase. Modified CPLM HiVeg™ Medium Base is prepared by completely replacing animal based peptone with vegetable peptones to avoid BSE/TSE risks associate with animal peptones. HiVeg™ peptone and HiVeg™ extract No. 2 in the medium provide nitrogenous compounds and other essential nutrients. L-cystine hydrochloride acts as a reducing agent. Cystine is not essential when cultures are incubated anaerobically but it assists the maintenance of anaerobiosis. The antibiotics inhibit bacterial growth and supports growth from a single protozoon under strictly anaerobic conditions.

Type of specimen

please add specimens

Specimen Collection and Handling:

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. Further wet mount examination of infected material should be done.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality Control

Appearance

Cream to yellow 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 at 25°C. pH : 6.0±0.2

pH

5.80-6.20

Cultural Response

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

Organism

Trichomonas vaginalis

ATCC 30001

Growth

good-luxuriant

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 15-25°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (3,4).

Reference

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.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
4. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

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