Trichomonas HiVeg™ Agar Base

MV665

Intended Use:

Recommended for detection and isolation of *Trichomonas vaginalis* and *Candida albicans*.

Composition**

Ingredients	g / L
HiVeg™ extract No. 2	25.000
Sodium chloride	6.500
Dextrose (Glucose)	5.000
Agar	1.000
Final pH (at 25°C)	6.4±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 37.5 grams in 920 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Inactivate 80 ml of horse serum (RM1239) adjust to pH 6.0 and add it to the medium for diagnostic work. Add Trichomonas Selective Supplement II (FD094) to increase selectivity of the medium. Mix well and pour into sterile Petri plates.

Principle And Interpretation

Trichomonas Agar is formulated as per the formulation of Feinberg and Whittington for the detection and isolation of *Trichomonas vaginalis* and *Candida albicans* from specimens (1).

Stenton reported that the incorporation of liver digest in the medium plays an important role in detection of *Trichomonas vaginalis* (2). Addition of small quantity of agar in the medium creates a slightly reducing atmosphere which in turn favours better growth of *Trichomonas* species.

From a mixed culture of *Trichomonas* and *Candida*, good growth of *Trichomonas* can be obtained as *Candida* does not interfere with *Trichomonas*. The medium is equally suitable for the examination of urethral and vaginal swabs and urine specimens.

Trichomonas HiVeg™ Agar Base is prepared by using vegetable peptones in place of animal based peptones which make the media free of BSE/TSE risks. HiVeg™ extract No. 2 provide the nitrogenous substances. Dextrose acts as the energy source. The selective agents chloramphenicol and penicillin (FD094) are inhibitory to gram-positive and gram-negative bacteria but not for *Trichomonas* species. Sodium chloride maintains the osmotic equilibrium of the medium. Under anaerobic conditions massive inocula are required.

Type of specimen

Clinical samples - vaginal and urethral secretions (women), anterior urethral or prostatic secretions (men)

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

Light yellow to light brown homogeneous free flowing powder

Colour and Clarity of prepared medium

Dark amber coloured clear to slightly opalescent viscous solution in tubes.

Reaction

Reaction of 3.75% w/v aqueous solution at 25°C. pH : 6.4±0.2

pH

6.20-6.60

Cultural Response

Cultural characteristics observed with added inactivated Horse Serum (RM1239) and SP Selective Supplement - II (FD094), after an incubation at 35-37°C for 3-5 days.

Organism	Growth
Candida albicans ATCC 10231 (00054*)	good-luxuriant
Trichomonas vaginalis ATCC 30001	good-luxuriant
Escherichia coli ATCC 25922 (00013*)	inhibited

Key : *Corresponding WDCM numbers.

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 2-8°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. Feinberg J.G. and Whittington J.M., 1957, J. Clin. Path., 10:327.
2. Stenton P., 1957, J. Med. Lab. Technol., 14:228.
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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