

Technical Information

Trichomonas Agar Base

Product Code: DM 1665

Application: - Trichomonas Agar Base is recommended for detection and isolation of *Trichomonas vaginalis* and *Candida albicans* from clinical specimens.

Composition**

Ingredients	Gms / Litre
Liver digest	25.000
Sodium chloride	6.500
Dextrose	5.000
Agar	1.000
Final pH (at 25°C)	6.4±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & 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 clinical 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.

Liver digest provide the nitrogenous substances. Dextrose acts as the energy source. The selective agents chloramphenicol and penicillin (MS1094) are inhibitory to gram-positive and gram-negative bacteria but not for *Trichomonas* species. Sodium chloride helps to maintain the osmotic equilibrium of the medium.

Under anaerobic conditions massive inocula are required.

Methodology

Suspend 37.5 grams of dehydrated powder media in 920 ml distilled water. Mix thoroughly & heat to boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool below 60°C. Inactivate 80 ml of horse serum (BA 2239) adjust to pH 6.0 and add it to the medium for diagnostic work. Add Trichomonas Selective Supplement II (MS 1094) to increase selectivity of the medium.

Quality Control

Appearance

Light yellow to light brown homogeneous free flowing powder.

Colour and Clarity

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.



Dehydrated Culture Media
Bases / Media Supplements

pH Range

6.20-6.60

Cultural Response

DM1665: Cultural characteristics observed with added inactivated Horse Serum (BA2239) and Trichomonas Selective Supplement II (MS1094) after an incubation at 35-37°C for 3-5 days.

Organism

Growth

Candida albicans ATCC 10231 good-luxuriant

Trichomonas vaginalis ATCC 30001 good-luxuriant

Escherichia coli ATCC 25922 inhibited

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

1. Feinberg J.G. and Whittington J.M., 1957, J. Clin. Path., 10:327.
2. Stenton P., 1957, J. Med. Lab. Technol., 14:228.

Disclaimer :

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