G.Vaginalis Selective Agar Plate

MP1057

Intended Use:

Recommended for qualitative isolation and differentiation of *Gardnerella vaginalis* from clinical specimens.

Composition**

Ingredients	g / L
Tryptone	12.000
Peptone	15.000
HM peptone B #	3.000
Yeast extract	3.000
Corn starch	1.000
Sodium chloride	5.000
5% v/v sterile anticoagulated human blood	50 ml
Agar	13.500
Final pH (at 25°C)	7.4±0.2

**Formula adjusted, standardized to suit performance parameters

- Equivalent to Beef extract

Directions

Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.

Principle And Interpretation

Gardnerella vaginalis is a facultatively anaerobic gram-variable rod. It has been demonstrated to cause a wide variety of infections; however, it is most commonly recognized for its role as one of the organisms responsible for bacterial vaginosis (BV). BV is the most common cause of vaginitis and the most common infection encountered in the outpatient gynaecological setting. Originally Ellner et al (1) developed a blood agar namely Columbia Agar for rapid growth of the haemolytic organisms with improved pigmentation and defined haemolytic reactions. Greenwood et al (2) further modified this medium by increasing the peptone concentration and used human blood instead of sheep blood for the isolation and differentiation of *G. vaginalis* based on beta haemolysis (3,4). Vaginalis Agar Base is used for the isolation of *G. vaginalis* from vaginal discharges (5).

Peptone, tryptone, yeast extract and HM peptone B provide nitrogenous compounds, carbon, sulphur, vitamin B complex and trace ingredients required for growth. Corn starch serves as the energy source. Blood supplies additional nutrients and also aids in identification.

Typical colonies of *G. vaginalis* appear small and white coloured. This medium is recommended for determination of haemolytic reaction of *G. vaginalis* and not for other microorganisms. If the specimen is suspected to contain streptococci or other haemolytic microorganisms, then a Soyabean Casein Digest Agar (with 5% v/v sheep blood) plate should be inoculated parallel to this medium to ensure the haemolytic reaction.

Type of specimen

Clinical samples - Vaginal secretions

Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (6,7).
After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

In Vitro diagnostic use only. For professional use only. 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 clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. If the specimen is suspected to contain streptococci or other haemolytic microorganisms, then a Soyabean Casein Digest Agar (with 5% v/v sheep blood) plate should be inoculated parallel to this medium to ensure the haemolytic reaction.
2. Further serological and biochemical testing is required for complete identification.

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

Sterile G.Vaginalis Selective Agar in 90 mm disposable plates with smooth surface and absence of black particles/cracks/ bubbles

Colour of medium

Cherry red coloured medium

Quantity of medium

25 ml of medium in 90 mm disposable plates.

pH

7.20-7.60

Sterility Check

Passes release criteria

Cultural Response

Cultural characteristics observed in an aerobic atmosphere containing 3-10% CO_2, after an incubation at 35-37°C for 48 hours.

Organism	Growth	Haemolysis
Gardnerella vaginalis ATCC 14018	good-luxuriant	beta (diffused)

Storage and Shelf Life

On receipt store between 2-8°C. Use before expiry date on the label. 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 clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (6,7).

Reference

1.Ellner P. D., Stoessel C. J., Drakeford E., Vasi F., 1966, Am. J. Clin. Pathol., 45 : 502.
2.Greenwood J. R., Martin M. J., Mack E. G., 1977, Health Lab. Sci., 14: 102.
3.Greenwood J. R. and Pickett M. J., 1980, Int. J. Syst. Bacteriol., 30: 170.
4.MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore
5.Piot P., Van Dyek E., Goodfellow M., Falkow S., 1980, J. Gen. Microbiol., 119: 373.
6.Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition
7.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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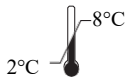
IVD ***In vitro*** **diagnostic medical device**



Storage temperature

EC REP CEpartner4U, Esdoornlaan 13,
3951DB Maarn, NL
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CE **CE Marking**

Do not use if package is damaged

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