

Chocolate Agar Plate

MP103

Intended use

For isolation of *Neisseria gonorrhoeae* from chronic and acute gonococcal infections.

Composition**

Ingredients	g/ L
Proteose peptone	20.000
Dextrose	0.500
Sodium chloride	5.000
Disodium phosphate	5.000
Agar	15.000
After sterilization	
Sterile Lysed blood (at 80°C)	50.000
Vitmino Growth Supplement (FD025)	2 vials
Final pH (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

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

Principle And Interpretation

Neisseria gonorrhoeae is a gram-negative bacteria and the causative agent of gonorrhea, however it is also occasionally found in the throat. The cultivation medium for gonococci should ideally be a rich nutrients base with blood, either partially lysed or completely lysed. The diagnosis and control of gonorrhea have been greatly facilitated by improved laboratory methods for detecting, isolating and studying *N. gonorrhoeae*.

Chocolate Agar Base, with the addition of supplements, gives excellent growth of the gonococcus without overgrowth by contaminating organisms. G.C. Agar (M434) can also be used in place of Chocolate Agar Base, which gives slightly better results than Chocolate Agar (1). The diagnosis and control of gonorrhea have been greatly facilitated by improved laboratory methods for detecting, isolating and studying *N. gonorrhoea*.

Interest in the cultural procedure for the diagnosis of gonococcal infection was stimulated by Mcleod and co-workers (2), Carpenter and Morton (3) and others. who clearly demonstrated the superiority of this method over the microscopic technique. Chocolate Agar Base with addition of supplement not only supports the growth of the gonococcus in pure culture but also permits its development from the mixed flora encountered in chronic gonococcal infections. Carpenter (4) reported that this medium and Haemoglobin (FD022) is useful for cultural detection of the gonococcus.

Type of specimen

Clinical samples - vaginal swabs

Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (5,6).

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. Some strains may show poor growth due to varying nutritional requirements.
2. Further biochemical tests must be carried out for confirmation.

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 Chocolate Agar in 90mm disposable plate with smooth surface and absence of black particles/bubbles/cracks.

Colour

Chocolate brown coloured medium

Quantity of medium

25ml of medium in 90mm plate

pH

7.10- 7.50

Sterility Check

Passes release criteria

Cultural response

Cultural characteristics observed after an incubation at 35-37°C for 24 - 48 hours.

Organism	Inoculum (CFU)	Growth	Recovery
<i>Neisseria gonorrhoeae</i> ATCC 19424	50-100	luxuriant	≥70%
<i>Neisseria meningitidis</i> ATCC 13090	50-100	luxuriant	≥70%
<i>Streptococcus pneumoniae</i> ATCC 6303	50-100	luxuriant	≥70%
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	luxuriant	≥70%
<i>Haemophilus influenzae</i> ATCC 19418	50-100	luxuriant	≥70%

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 (5,6).

Reference

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- McLeod J. W., Cootes J. C., Happold F. C., Priestely D. P., Wheatley B., 1934, J. Path. Bacteriol., 39:221.
- Carpenter C. M., and Marton H. E., 1947, Proc. N. Y. State Assoc. Public Health Loss., 27:58.
- Carpenter C. M., Bucca M. A., Buck T. C., Casman E. P., Vhristensen C. W., Crowe E., Drew R., Hill J., Lankford L. E., Morton H. E., Peizer L. R., Shaw C. J., and Thayer J. D., 1949, Am. J. Syphil. Gonorrh. Vene ral Diseases, 33:164.
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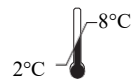
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Storage temperature



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