

Dehydrated Culture Media Bases / Media Supplements

Technical Information

Chocolate Agar Plate

Product Code: PM 1103

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

Ingredients	Gms / Litre	
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	
/itamino Growth Supplement (MS1025)	2 vials	
Final pH (at 25°C)	7.3±0.2	

**Formula adjusted, standardized to suit performance parameters

Principle & 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 (4). The diagnosis and control of gonorrhea have been greatly facilitated by improved laboratory methods for detecting, isolating and studying and studying N. gonorrhoea. Interest in the cultural procedure for the diagnosis of gonococcal infection was stimulated by Ruys and Jens (9), Mcleod and co-workers (8), Thompson (7), Leahy and Carpenter (1), Carpenter, Leahy and Wilson (2) and Carpenter (10), 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 (3) reported that this medium and Haemoglobin (FD022) is useful for cultural detection of the gonococcus.

Type of specimen

Clinical samples - Blood, throat, Urethral, Rectal, Cervical, Vaginal, Oropharyngeal, Conjunctival and sterile body fluids.

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





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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 Performance and Evaluation recommended temperature.

Methodology

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

Quality Control

Physical Test

Appearance Sterile Chocolate Agar in 90mm disposable plate. pН 7.10- 7.50 Quantity of medium 25 ml of medium in 90 mm plate. Colour of medium Chocolate brown coloured medium. Sterility Test Passes release criteria Cultural Response Cultural characteristics observed after incubation at 35-37°C for 24 - 48 hours. Oragnism Inoculum Growth (CFU)

Neisseria gonorrhoeae	50-100	luxuriant	>=70%
ATCC 19424			
Neisseria meningitidis	50-100	luxuriant	>=70%
ATCC 13090			
Streptococcus pneumonia	50-100	luxuriant	>=70%
ATCC 6303			
Streptococcus pyogenes	50-100	luxuriant	>=70%
ATCC 19615			
Haemophilus influenzae	50-100	luxuriant	>=70%
ATCC 19418	00 200		
1100 10410			

Storage and Shelf Life

- On receipt store between 20-30°C.
- Use before expiry date on the label.
- Product performance is best if used within stated expiry period.



Recovery



Bases / Media Supplements

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).

Further Reading

1.Am. J. Syphillis, 20:347:193.

2.Am. J. Syphillis, 22:55:1938

3.Bull. Genitoinfectious diseases, Mass. State Health Dept., 2:1:1938

4.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. Veneral Diseases, 33:164

5. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.

6.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.

7.J.Infectious Diseases, 61:129:1937

8.Muench. Wochschr., 80:846:1933

9.McLeod J. W., Cootes J. C., Happold F. C., Priestely D. P., Wheatley B., 1934, J. Path. Bacteriol., 39:221

10.Seventh Annual Year book (1936-37) P.133, supple., Am. J. Pub.Health.27: no.3 : 1937

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate
- Central Drug House Pvt. Ltd. reserves the right to make changes to specifications and information related to the products at any time.
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- Do not use the products if it fails to meet specificatons for identity and performens parameters.

