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Chocolate Agar Base

Designed for selective isolation of of Neisseria gonorrhoeae from chronic and acute cases of gonococcal infections.

REF: BS.1/CMP01.100.0100	100 Gram	REF: BS.1/CMP01.250.0250	250 Gram
REF: BS.1/CMP01.500.0500	500 Gram		

CLINICAL SIGNIFICANCE

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

METHOD PRINCIPLE

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 Ruys and Jens, Mcleod and co-workers (2), Thompson (3), Leahy and Carpenter (4), Carpenter, Leahy and Wilson (5) and Carpenter (6), 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 (7) reported that this medium and Haemoglobin (FD022) is useful for cultural detection of the Gonococcus.

MEDIA COMPOSITION

Item	Formula per liter of medium
- Proteose peptone - Dextrose - Disodium hydrogen phosphate - Sodium chloride - Agar	20.00 gm 0.500 gm 5.000 gm 5.000 gm 15.00 gm

Final pH 7.3± 0.2 at 25 °C

PRECAUTIONS AND WARNINGS

Media to be handled by entitled and professionally educated person. Do not ingest or inhale.

Good Laboratories practices using appropriate precautions should be followed in:

- Wearing personnel protective equipment (overall, gloves, glasses,).
- Do not pipette by mouth.
- In case of contact with eyes or skin; rinse immediately with plentyof soap and water. In case of severe injuries; seek medical adviceimmediately.
- Respect country requirement for waste disposal.

S56: dispose of this material and its container at hazardous or special waste collection point.
S57: use appropriate container to avoid environmental contamination.
S61: avoid release in environment.

STORAGE AND STABILITY

BioScien Chocolate Agar Base should be stored between 10-30°C in a firmlyclosed 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 avoid lump development due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in a dry ventilated area protected from extremes of temperature andsources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

PREPARATION

Suspend 45.5 grams in 495 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. Aseptically add equal amount (495 ml)of sterile FO Growth Supplement (FD022). Also add the contents or one vial of Yeast Autolysate Supplement (FD027) or Vitamino Growth Supplement (FD025) reconstituted as directed. Mix well and pour into sterile Petri plates. When single strength medium is desired, suspend 45.5 grams in 1000 ml distilled water.

Deterioration

- The color of ***BioScien*** Chocolate Agar Base is Cream to yellow homogeneous free flowing powder. Basal medium: Light amber coloured clear to slightly opalescent gel. After addition of haemoglobin : Chocolate brown coloured opaque gel forms in Petri plates.

If there areany physical changes for powder or signs of deterioration (shrinking, cracking, or discoloration), and contaminations for hydrated media, discard the medium.

EQUIPMENT REQUIRED NOT PROVIDED

- Sterile cups
- Sterile petri-dishes
- Incubator

SPECIMEN

Clinical samples - urethral swabs, urine samples

PERFORMANCE CHARACTERISTICS

Cultural characteristics observed with added FO Growt Supplement (FD022), Yeast autolysate Supplement (FD027) or Vitamino Growth Supplement(FD025), after an incubation at 35-37°C for 40-48 hours.

Oranism	Growth
Neisseria gonorrhoeae ATCC 19424	*luxuriant*
Neisseria meningitidis ATCC 13090	*luxuriant*
Streptococcus pneumoniae ATCC 6303	*luxuriant*
Haemophilus influenzae ATCC 19418	*luxuriant*

SYMBOLS IN PRODUCT LABELLING	
LOT Batch Code/Lot number	Caution
REF Catalogue Number	Do not use if package is damaged
Temperature Limitation	Consult Instruction for use
Expiration Date	
Manufactured by	

QUALITY CONTROL

To ensure adequate quality control, it is recommended that positive and negative control included in each run. If control values are found outside the defined range, check the system performance. If control still out of range please contact ***BioScien*** technical support.

REFERENCES

1.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
2.McLeod J. W., Cootes J. C., Happold F. C., Priestely D. P., Wheatley B., 1934, J. Path. Bacteriol., 39:221.
3.Muench. Wochschr., 80:846:1933
4.J.Infectious Diseases, 61:129:1937
5. Am. J. Syphillis, 20:347:1936
6. Am. J. Syphillis, 22:55:1938
7. Seventh Annual Year book (1936-37) P.133, supple., Am. J. Pub.Health.27: no.3 : 1937
8. Bull. Genitoinfectious diseases, Mass. State Health Dept., 2:1:1938.
9. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
10. 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.