

Technical Information

Chocolate MiVeg Agar Base

Product Code : VM1103

Application:- Chocolate MiVeg Agar Base with supplements is used for the cultural isolation of *Neisseria gonorrhoeae* from chronic and acute cases of gonococcal infections.

Composition**

Ingredients	Gms / Litre
MiVeg peptone No. 3	20.0
Dextrose	0.5
Sodium chloride	5.0
Disodium phosphate	5.0
Agar	15.0
Final pH (at 25°C)	7.3±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Chocolate MiVeg Agar Base is prepared by using MiVeg peptone No.3, instead of protease peptone which makes it free from BSE/TSE risks. With the addition of supplements, it gives excellent growth of *Gonococci* without over growth by the contaminating organisms. G.C. MiVeg Agar Base (VM1434) can also be used in place of this media, with the former giving slightly better results. At present laboratory methods have been improved for detecting, isolating and studying *Neisseria gonorrhea* which facilitate diagnosis control of *Gonorrhea*. Interest in the cultural procedure for the diagnosis of *Gonococcal* infection was stimulated by Ruys and Jens (1), 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 the cultural method over the microscopic technique. This media not only supports the growth of *Gonococci* in pure culture but also permits its development from mixed flora encountered in chronic gonococcal infections.

Methodology

Suspend 45.5 grams of powder media in 500 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C. Aseptically add equal amount of sterile 2% Hemoglobin Solution (MS2022). Also add the contents of one vial of Yeast Autolysate Supplement (MS2027) or Vitamino Growth Supplement (MS2025) reconstituted as directed. Mix well before pouring. When single strength medium is desired, suspend 45 grams in 1000 ml distilled water.

Quality Control

Physical Appearance

Yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity of prepared medium

Basal medium yields light amber coloured clear to slightly opalescent gel in petri plates. Addition of Haemoglobin forms chocolate brown coloured opaque gel in petri plates.

Reaction

Reaction of 4.55 % w/v aqueous solution pH: 7.3 ±0.2 at 25°C

pH range

7.1-7.5

Cultural Response/Characteristics

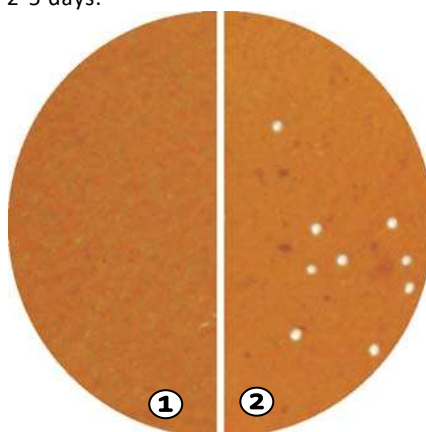
Cultural characteristics observed after an incubation at 35-37°C for 40-48 hours with addition of sterile 2% Haemoglobin solution (MS2022).

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Neisseria gonorrhoeae</i> (19424)	10^2 - 10^3	luxuriant	>70%
<i>Neisseria meningitidis</i> (13090)	10^2 - 10^3	luxuriant	>70%
<i>Streptococcus pneumoniae</i> (6303)	10^2 - 10^3	luxuriant	>70%
<i>Streptococcus pyogenes</i> (19615)	10^2 - 10^3	luxuriant	>70%

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

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



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1. Control
2. *Streptococcus pyogenes*

Further Reading

1. Muench. Wochschr., 80:846:1933
2. J. Path. Bact., 39:221:1934
3. J. Infectious Diseases, 61:129:1937
4. Am. J. Syphilis, 20:347:1936
5. Am. J. Syphilis, 22:55:1938
6. Seventh Annual Year book (1936-37) P.133, suppl., 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
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