

TM 2139 - ISLAM'S MEDIUM BASE FOR GROUP B STREPTOCOCCI

INTENDED USE

For identification and cultivation of group B Streptococci from clinical specimens.

PRODUCT SUMMARY AND EXPLANATION

Islam formulated this medium to exploit the ability of most Group B Streptococci to produce orange/red-pigmented colonies when incubated under anaerobic conditions. Lancefield first noted carotenoid pigmentation, characteristic of group B Streptococci when incubated under anaerobic conditions. This medium also supports growth of other genital bacteria that cause neonatal infection such as anaerobic *Streptococcus*, *Bacteroides* and *Clostridium* species.

Pigmentation can be enhanced by adding trimethoprim/sulphonamides. No inhibition of growth occurs and the pigmentation is seen clearly over a radius of 10-20 mm. The medium must have the correct pH to ensure good pigmentation but some strains of Group B Streptococci do not produce pigmented colonies. Other organisms that can grow on this medium do not produce the characteristic orange-red pigment. Inoculate the specimen swab onto the surface of Islam's Medium. If desired, apply a disc containing 300 or 500µg of sulphafurazole onto an area of the plate where growth can be expected to be moderately profuse. Incubate the plates anaerobically at 35°C for 24 to 48 hours.

COMPOSITION

Ingredients	Gms / Ltr
Proteose peptone	23.000
Starch,soluble	5.000
Sodiumdihydrogenphosphate	1.482
Disodiumhydrogenphosphate	5.749
Agar	10.000

PRINCIPLE

Proteose peptone provides the necessary nutrients for the growth of Group B Streptococci. Disodium and monosodium phosphates provide buffering to the medium.

INSTRUCTION FOR USE

- Dissolve 45.23 grams in 950 ml purified / distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 115°C for 10 minutes.
- Cool to 45-50°C and aseptically add 50 ml sterile inactivated horse serum, (inactivated by heating at 56°C for 30 minutes).
- Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium : Yellow coloured, clear to slightly opalescent gel forms in Petri plates.
pH (at 25°C) : 7.4±0.2

INTERPRETATION

Cultural characteristics observed with added sterile inactivated horse serum, after an incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Pigmentation	Incubation Temperature	Incubation Period
<i>Bacteroides fragilis</i>	25285	50-100	Fair-good	20-40 %	No pigmentation	35 - 37°C	24-48 Hours
<i>Enterococcus faecalis</i>	29212	50-100	Luxuriant	>=70%	No pigmentation	35 - 37°C	24-48 Hours
<i>Streptococcus agalactiae</i>	13813	50-100	Luxuriant	>=70%	Orange/red	35 - 37°C	24-48 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.













Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. deal Rosa M., Villareal R., Vega D., Miranda C. and Martinezbrocal A., 1983, J. Clin. Microbiol., 18:779.
2. Islam A. K. M. S., 1927, Lancet, i: 256 (letter).
3. Islam A. K. M. S., 1981, J. Clin. Pathol., 34:78.
4. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
5. 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.
6. Merrit K. and Jacobs N. J., 1978, J. Clin. Microbiol., 8:105.

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Bockstrasse 10, 48163 Maastricht, Germany</small>	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.



***For Lab Use Only**
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