

PRODUCT SPECIFICATION SHEET



Intended Use

GBS Medium Base (DM115) is recommended for rapid detection of group B *Streptococci* in clinical specimens.

Product Summary and Explanation

Group B streptococci with Lancefield group B antigen (*Streptococcus agalactiae*) are a recognised cause of serious neonatal infection acquired from the infected mother and are characterized by sepsis and meningitis. Heavy colonization of the maternal genital tract is associated with colonization of infants and risk of neonatal disease.⁽¹⁾ Group B streptococci may also be isolated from adults infected in a variety of sites. For the isolation and detection of group B Streptococci (GBS) from clinical specimens, Islam formulated GBS Medium.⁽²⁻⁴⁾ GBS Medium is designed to take advantage of the ability of most Group B Streptococci (GBS) to produce orange /red pigmented colonies when incubated under anaerobic conditions. The orange red pigment of group B streptococci has characteristics of a carotenoid and was first noted by Lancefield in 1934 in nine of twenty-four strains grown anaerobically.⁽³⁾ GBS Medium Base also supports growth of other genital bacteria that cause perinatal infections,⁽¹⁾ e.g. anaerobic *Streptococcus*, *Bacteroides* and *Clostridium* species.

Principles of the Procedure

GBS Medium Base contains proteose peptone which provides the necessary nutrients for the growth of Group B Streptococci. The phosphate salts adds to the buffering capability of the medium. The antibiotic supplement (MS015) makes the medium selective for Group B Streptococci, while the horse serum (MS084) enriches the media.

Formula / Liter

Ingredients	Gms / Liter
Proteose peptone	23.00
Sodium dihydrogen phosphate	1.50
Disodium hydrogen phosphate	5.75
Starch, soluble	80.00
Final pH : 7.5 ± 0.2 at 25°C	
Formula may be adjusted and/or supplemented as required to meet performance specifications	

Precautions

1. For Laboratory Use only.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

Directions

1. Suspend 55.12 grams in 475 ml distilled water.
2. Dissolve completely by gently heating to boiling for 15-20 minutes.
3. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.
4. Cool to 60°C and aseptically add 25 ml sterile inactivated Horse serum (MS015) and sterile rehydrated contents of 1 vial of GBS Selective Supplement (MS015).
5. Mix well and dispense into sterile test tubes.
6. For the formation of gel, tubes are to be refrigerated (2-8°C) over-night before use.

Quality Control Specifications

Dehydrated Appearance	Cream to beige homogeneous free flowing powder
Prepared Medium	Light amber coloured, clear to slightly opalescent solution without any precipitate in tubes
Reaction of 11.02 % Solution	pH : 7.5 ± 0.2 at 25°C
Gel Strength	Not Applicable

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Further Information

For further information please contact your local MICROMASTER Representative.



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DM115PI, Rev.0, 01.08.2008

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