

# GBS (Group B Streptococci) Agar



Medium used for the isolation and identification of group B Streptococci in clinical specimens.

## • CONTENTS (Liter)

Proteose Peptone	23.0 g
Soluble Starch	5.0 g
Monosodium Phosphate	1.5 g
Disodium Phosphate	5.75 g
Agar	12.0 g
Final pH = 7.5 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 47.25 G of powder in 950 mL of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Aseptically add 50 mL of sterile Horse Serum (MB-H1888, required heat inactivation at 56°C for 30 minutes). Mix well. Pour into petri dishes.

## • INTERPRETATION

GBS (Group B Streptococci) Agar is a medium used for the isolation and identification of group B Streptococci in clinical specimens. Proteose peptone provides the carbon, nitrogen, vitamins and minerals. Soluble starch neutralizes toxic metabolic by-products and enhances pigmentation. Phosphates are the buffering agents. Agar is the solidifying agent.

## • TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36 ± 1°C for 24 - 48 hours under anaerobic condition. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

### Prepared medium

Appearance : slightly opalescent

Color: light amber

Incubation conditions: 36 ± 1°C / 24 - 48 hours under anaerobic conditions

Microorganism	ATCC	Growth	Characteristics
<i>Streptococcus agalactiae</i>	12386	good	orange colonies
<i>Streptococcus agalactiae</i>	13813	good	non-pigmented colonies
<i>Enterococcus faecalis</i>	29212	good	non-pigmented colonies

## • WARNING AND PRECAUTIONS

Check the label before opening the container and follow appropriate microbiological laboratory procedures. Wear protective gloves, protective clothing, safety glasses, and face protection. Safety instructions can be found in Material Safety Data Sheet (MSDS).

## • PERFORMANCE AND EVALUATION

Performance of the medium can be expected when used according to the directions on the label within the recommended temperature.

## • STORAGE AND SHELF LIFE

The powder is very hygroscopic. Store in the provided container according to the temperature indicated on the container surface, and store the prepared medium at a temperature of 2 to 8°C. Use within the expiration date indicated on the label and store in a dry and well-ventilated place. The product can be used until the stated expiration date.

## • REFERENCES

1. Islam A. K. M. S. (1977) Lancet i 256-257 (letter).
2. PHLS Communicable Disease Report (1954) CDR 84/38, 3-6.
3. Merrit K. and Jacobs N. J. (1978) J. Clin. Microbiol. 8. 105-107.
4. Fallon R. J. (1974) J. Clin. Pathol. 27. 902-905.
5. Merrit K. and Jacobs N. J. (1978) J. Clin. Microbiol. 4. 379-380.
6. Noble A. M., Bent J. M. and West A. B. (1983) J. Clin. Pathol. 36. 350-352.
7. de la Rosa M., Villareal R., Vega D., Miranda C. and Martinezbrocal A. (1983) J. Clin. Microbiol. 18. 779-785.
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## • PACKAGE

Cat. No : MB-G2170 GBS (Group B Streptococci) Agar	500 G
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