

TMP 034- BLOOD AGAR PLATE W/ GENTAMICIN (5MCG/PLATE)

INTENDED USE

For selective isolation of Streptococcus pneumoniae.

PRODUCT SUMMARY AND EXPLANATION

Blood agar with gentamicin is an enriched medium, used for the selective isolation of *Streptococcus pneumoniae*. The medium gives increased isolation rates of beta-hemolytic streptococci, other streptococci, Bacteroides, Clostridia and yeasts. This medium also helps in detecting gentamicin resistant gram-negative bacilli that are present in mixed culture.

COMPOSITION

Ingredients	Gms / Ltr
Brain Heart infusion, from	2.000
Agar	15.000
Pancreatic Digest of casein	13.000
Sodium chloride	5.000
Yeast Extract	5.000
Gentamicin	5 mcg/plate
Sheep blood	50.000ml

PRINCIPLE

Medium contains highly nutritious Liver extract & Yeast extracts, which provide vitamins, carbohydrates, salts and other organic nitrogen compounds. Sodium chloride provides essential ions and maintains electrolyte balance. Proteose peptone provides additional growth factors in the medium. Agar is a solidifying agent. Blood provides additional growth factors and also serves as basis for determining hemolytic reactions. Gentamicin inhibits other gram-positive bacteria. Isolation of *Streptococcus pneumoniae* from respiratory secretions can be increased by using a 5% sheep blood agar plate supplemented with gentamicin.

INSTRUCTION FOR USE

Either streak, inoculate or surface spread the test inoculum aseptically on the plate.

QUALITY CONTROL SPECIFICATIONS

Appearance: Cherry Red colour, opaque gelQuantity of Medium: 25ml of medium in 90mm plates.

pH (at 25°C) : 7.3 ± 0.2

Sterility Check : Passes release criteria

INTERPRETATION

Cultural response observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Streptococcus pneumonia	6303	50-100	Luxuriant	>=70%	35-37°C	18-48 hours
*Clostridium sporogenes	11437	50-100	Luxuriant	>=70%	35-37°C	18-48 hours
*Clostridium perfringens	13124	50-100	Luxuriant	>=70%	35-37°C	18-48 hours









PRODUCT DATA SHEET

Streptococcus pyogenes	19615	50-100	Luxuriant	>=70%	35-37°C	18-48 hours
Staphylococcus aureus	25923	≥1000	Inhibited	0%	35-37°C	18-48 hours
Escherichia coli	25922	≥1000	Inhibited	0%	35-37°C	18-48 hours
Staphylococcus aureus	6538	≥1000	Inhibited	0%	35-37°C	18-48 hours

^{*} Incubated anaerobically

PACKAGING:

Doubled layered packing containing 5 No. of plates with one silica gel desiccant bag packed inside it.

STORAGE

On receipt, store the plates at 2-8 °C. Avoid freezing and overheating. Do not open until ready to use. Prepared plates stored in their original sleeve wrapping until just prior to use may be inoculated up to the expiration date and incubated for recommended incubation times. Allow the medium to warm to room temperature before inoculation.

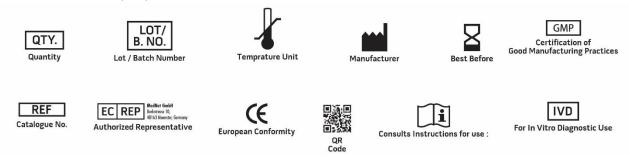
Product Deterioration: Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

DISPOSAL

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

REFERENCES

- Waterworth, M. Pamela, Brit. J. Exp. Pathol., 36, 186 (1955).
- Hunter, D. and Kearns M., Brit. Vet. J., 133, 486. (1977).
- Skirrow, M.B., B.M.J.ii, 9. (1977).



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices. *For Lab Use Only

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