

## CM 22521- 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 gel
Quantity 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
<i>Streptococcus pneumoniae</i>	6303	50-100	Luxuriant	>=70%	35-37°C	18-48 hours
* <i>Clostridium sporogenes</i>	11437	50-100	Luxuriant	>=70%	35-37°C	18-48 hours
* <i>Clostridium perfringens</i>	13124	50-100	Luxuriant	>=70%	35-37°C	18-48 hours



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

\* Incubated anaerobically

**PACKAGING:**

Doubledlayered 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**

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

**REFERENCES**

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



Quantity



Lot / Batch Number



Temperature Unit



Manufacturer



Best Before



Certification of Good Manufacturing Practices



Catalogue No.



Authorized Representative



European Conformity



QR Code



Consults Instructions for use :



For In Vitro Diagnostic Use

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

**\*For LabUse Only**