

CM 21587 - SELECTIVE STREPTOCOCCUS AGAR

INTENDED USE

For selective isolation of group A Streptococci with blood.

PRODUCT SUMMARY AND EXPLANATION

Streptococcus Selective Agar is a medium used for the isolation of Streptococcus species. Streptococci are commonly isolated from the upper respiratory tract. They are also often isolated from burns and other sites where frequently there is an abundance of competing organisms.

COMPOSITION

Ingredients	Gms / Ltr
Casein peptone	15.000
Esculin	1.000
Neomycin sulfate	0.020
Soy peptone	5.000
Colistin	0.010
Ferric ammonium citrate	0.500
Sodium chloride	5.000
Oxalic acid	0.005
Agar	17.000

PRINCIPLE

The medium consists of casein peptone and soy peptone which provide nitrogen, vitamins, minerals and amino acids essential for growth. Organisms positive for esculin hydrolysis hydrolyze the glycoside esculin to esculetin and dextrose. The esculetin reacts with the ferroammonium citrate to form a dark brown or black colony. Neomycin provides suppression of normal flora for improved recovery of the group A and group B. Colistin breaks the cell membrane of Gram negative microorganisms, especially Pseudomonas species. Sodium chloride supplies essential electrolytes for transport and osmotic balance. Agar is the solidifying agent.

INSTRUCTION FOR USE

Dissolve 43.53 grams in 1000 ml purified/distilled water.

Heat to boiling with frequent agitation to dissolve the medium completely. AVOID OVERHEATING. DO NOT AUTOCLAVE.

Mix well before dispensing into petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Beige coloured homogeneous free flowing powder.
Appearance of prepared medium	: Light amber coloured slightly opalescent gel forms in Petri plates.
pH (at 25°C)	: 7.3±0.2

INTERPRETATION

Cultural characteristics observe after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Streptococcus pyogenes	19615	50-100	Good	>=50%	35-37°C	24-48 Hours
Staphylococcus aureus	25923	50-100	Inhibition	0%	35-37°C	24-48 Hours

PACKAGING:

Inpacksize of 10 gm and 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.

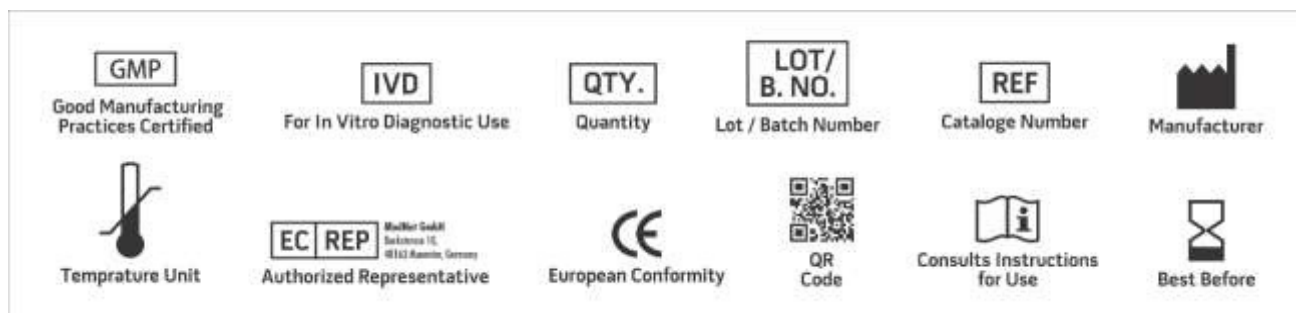
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1. P.R. Murray, E.J. Baron, M.A. Pfaller, F.C. Tenover and R.H. Tenover (eds) Manual of clinical microbiology, 6th ed. American Society for Microbiology, Washington, D.C.
2. Petts DN. Colistin-oxolinic acid-blood agar: a new selective medium for streptococci. J Clin Microbiol. 1984;19:4-7.



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

*For Lab Use Only

