

CM 22250 – COLUMBIA 5% BLOOD AGAR PLATE

INTENDED USE

For isolation and cultivation of fastidious organisms.

PRODUCT SUMMARY AND EXPLANATION

Columbia Blood Agar Base was developed after the Columbia Agar formulation described by Ellner et al. from Columbia University. Columbia Blood Agar Base is specified in the Compendium of Methods for the Microbiological Examination of Foods.

COMPOSITION

Ingredients	Gms / Ltr
Peptone, special	23.000
Corn starch	1.000
Sodium chloride	5.000
Agar	15.000
Sheep blood	50.000ml

PRINCIPLE

The medium derives its superior growth-supporting properties from the combination of two peptones, and yeast extract as a supplier of the B complex vitamins. Corn starch is included to absorb toxic by-products contained in the specimen and serves as an energy source for organisms possessing alpha-amylases. Sheep blood allows detection of hemolytic reactions and supplies the X factor (heme) necessary for the growth of many pathogenic species. However it is devoid of V factor (Nicotinamide adenine dinucleotide) and hence *Haemophilus influenzae* which needs both the X and V factors, will not grow on this medium

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 characteristics observed after inoculation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Haemolysis	Incubation Temperature	Incubation Period
<i>Streptococcus pneumoniae</i>	6303	50-100	Luxuriant	>=70%	Alpha	35-37°C	24-48 hours
<i>Streptococcus pyogenes</i>	19615	50-100	Luxuriant	>=70%	Beta	35-37°C	24-48 hours
<i>Staphylococcus aureus</i>	6538	50-100	Luxuriant	>=70%	Beta	35-37°C	24-48 hours
<i>Enterococcus faecalis</i>	29212	50-100	Luxuriant	>=70%	Beta	35-37°C	24-48 hours
<i>Escherichia coli</i>	25922	50-100	Luxuriant	>=70%	None	35-37°C	24-48 hours
<i>Salmonella typhi</i>	6539	50-100	Luxuriant	>=70%	None	35-37°C	24-48 hours

PACKAGING:

Doublelayeredpacking 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. Ellener,P.C., C.J. Stoessel, E. Drakeford, and F. Vassi. A new culture medium for medical bacteriology. Am J. Clin Pathol. 45:502-504. (1966).
2. Vanderzant, C., and D. F. Splittstoesser (eds.). Compendium of methods for the microbiological examination of food, 3rd ed., p. 1113. American Public Health Association, Washington, D.C.



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**

