CM 22579 – SHEEP BLOOD AGAR PLATE, MODIFIED PLATE

INTENDED USE
For cultivation off a stidious organisms and studyinghaemolytic reactions.

PRODUCTSUMMARY AND EXPLANATION
SheepBlood Agar Base,modified with added sheepblood was developed to allow maximum recovery of *B. cereus* without interfering with their haemolytic reactions. Thecomposition and performance of this media are as per the specification laid down in ISO 21871:2006. It was formulatedto be compatible with sheep blood and give improved haemolytic reactions of organisms. *Bacillus cereus* is a Gram-positive aerobic or facultatively anaerobic, motile, spore forming, rod shaped bacterium that is widely distributed environmentally. *B. cereus* is associated mainly with food poisoning and it is increasingly reported to be cause of serious andfatal non- gastrointestinal tract.

COMPOSITION

Ingredients	Gms / Ltr
Enzymatic digest of casein	15.000
Agar	12.500
Sodium chloride	5.000
Enzymatic digest of Soya	5.000
Sheep Blood	50.000ml

PRINCIPLE
Medium contains nutritional components like enzymatic digest of casein, enzymatic digest of soya and the addition of sodium chloride provides an osmotically balanced medium for bacterial cells. The addition of 5% defibrinated sheep blood allows for the determination of hemolytic reactions, an important differential characteristic.

INSTRUCTION FOR USE
Eitherstreak,inoculateorsurface 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
Culturalcharacteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Haemolysis	Incubation Temperature	Incubation Period
Bacillus cereus	10876	50-100	Luxuriant	>=70%	Beta	35-37°C	18 - 48 Hours

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.

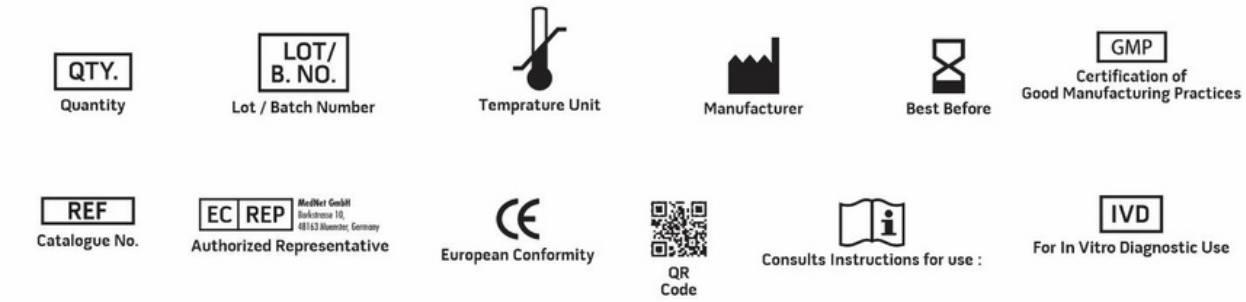
Product Deterioration: Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

DISPOSAL

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

REFERENCES

1. PelczarM. J. Jr., Reid R. D., Chan E. C. S., 1977, Microbiology, 4th Ed., Tata McGraw-Hill Publishing Company Ltd, New Delhi.
2 .Koneman E. W., Allen S. D., Janda W. M., Schreckenberger P. C., Winn W. C. Jr., 1992, Colour Atlas and Textbook of Diagnostic Microbiology, 4th Ed., J. B. Lippinccott Company.
3. Spector W. S., (Ed.), 1961, Handbook of Biological Data, W. B. Saunder Company, Philadelphia and London.



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