

CM 22525 – CETRIMIDE AGAR PLATE

INTENDED USE

For selective isolation of *Pseudomonas aeruginosa* from pharmaceutical product and clinical specimens.

PRODUCT SUMMARY AND EXPLANATION

CETRIMIDE AGAR PLATE is used for the selective isolation of *Pseudomonas aeruginosa* from samples. The medium contains quaternary ammonium, cationic detergent compound like Cetrимide which has a property to inhibit all the bacteria except *P. aeruginosa* thus making the medium selective for *Pseudomonas aeruginosa*. Cetrимide causes release of nitrogen and phosphorus from bacterial cells other than *P. aeruginosa*.

COMPOSITION

Ingredients	Gms / Ltr
Pancreatic digest of gelatin	20.00
Agar	13.60
Potassium sulphate	10.00
Magnesium chloride	1.40
Cetrимide	0.30

PRINCIPLE

Pancreatic digest of gelatin is a source of carbon and nitrogen for the growth of microorganisms. Agar is a solidifying agent. Magnesium chloride and Potassium sulphate stimulates the bacterium to produce and secrete a pigment called pyocyanin due to which the colony colour turns light green, and also they form a grape like odour due to production of aminoacetophenone. These are the typical characteristics that help in isolating *P. aeruginosa* using cetrимide agar base. On incubation of plates in an inverted position (agar side up) at 35 ± 2°C for 18-48 hours, *P. aeruginosa* showed profuse growth whereas strain of *E. coli* inhibits the growth in this medium. If the cfu/ml is high then the test sample can be directly inoculated onto this cetrимide medium.

INSTRUCTION FOR USE

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

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Light Amber colored medium
Quantity of Medium	:	25ml of medium in 90mm plates.
pH (at 25°C)	:	7.2 ± 0.2
Sterility Check	:	Passes release criteria

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Color of the Colony	Incubation Temperature	Incubation Period
<i>Pseudomonas aeruginosa</i>	27853	50-100	Good	>40-50 %	Yellow green	30-35°C	18-72 Hours



Pseudomonas aeruginosa	9027	50-100	Good	>40-50 %	Yellow green	30-35°C	18-72 Hours
Escherichia coli	25922	≥1000	Inhibited	0 %	-	30-35°C	18-72 Hours
Staphylococcus aureus	25923	≥1000	Inhibited	0 %	-	30-35°C	18-72 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 15–30 °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

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- Lowbury, 1951, J. Clin. Pathol., 4:66.
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- Brown and Lowbury, 1965, J. Clin. Pathol., 18:752.
- Murray P. R., Baron J. H., Tenover F. C., Tenover F. C., (Ed.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.
- USFDA Bacteriological Analytical Manual, 2005, 18th Ed., AOAC, Washington, DC.
- Forbes B. A., Sahm A. S. and Weissfeld D. F., Bailey & Scotts Diagnostic Microbiology, 10th Ed., 1998, Mosby, Inc., St. Louis, Mo.
- Williams, (Ed.), 2005, Official Methods of Analysis of the Association of Official Analytical Chemists, 19th Ed., AOAC, Washington, D.C.



Quantity



Lot / Batch Number



Temperature Unit



Manufacturer



Best Before



Certification of Good Manufacturing Practices



Catalogue No.



Authorized Representative



MedNet GmbH
Stadestraße 10,
48163 Münster, Germany



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.

*ForLabUse Only

