

CM 20398 – CETRIMIDE AGAR BASE (VEG.)

INTENDED USE

For selective isolation of *Pseudomonas aeruginosa* from clinical samples.

PRODUCT SUMMARY AND EXPLANATION

This medium is prepared by replacing Gelatin peptone with Veg Peptone No.2. Cetrimide Veg Agar Base is the modification of Cetrimide Agar Base which is based on the formula described by King et al. It is used as a selective medium for the isolation of *Pseudomonas aeruginosa* from pus, sputum and drains etc. Also used for determining the ability of an organism to produce fluorescein and pyocyanin.

For the isolation of *Pseudomonas aeruginosa*, plates of Cetrimide Veg Agar Base should be inoculated from non-selective medium such as Brain Heart Infusion Broth Veg or Soyabean Veg medium. If the count is high the test sample can be directly inoculated onto this medium. *Pseudomonas aeruginosa* colonies may appear blue, blue-green or nonpigmented.

COMPOSITION

Ingredients	Gms / Ltr
Veg peptone No. 2	20.000
Magnesium chloride	1.400
Potassium sulphate	10.000
Cetrimide	0.300
Agar	15.000

PRINCIPLE

Cetrimide (Cetyltrimethylammonium bromide) is incorporated in the medium to inhibit bacteria other than *Pseudomonas aeruginosa*. It acts as a quaternary ammonium compound, cationic detergent that causes nitrogen and phosphorus to be released from bacterial cells other than *Pseudomonas aeruginosa*.

INSTRUCTION FOR USE

Dissolve 46.7 grams in 1000 ml purified/distilled water containing 10 ml glycerol.

Heat, to boiling, to dissolve the medium completely. Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

Cool to 45-50°C. If desired, rehydrated contents of 1 vial of Nalidixic Selective Supplement may be added aseptically to 1000 ml medium.

Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.
Appearance of prepared medium	: Light amber coloured, opalescent gel forms in petri plates.
pH (at 25°C)	: 7.2±0.2

INTERPRETATION

Cultural characteristics observed after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Colour of colony	Incubation Temperature	Incubation Period
Pseudomonas aeruginosa	27853	50 -100	Luxuriant	>=70%	Greenish yellow	35-37°C	24-48 Hours
Escherichia coli	25922	>=10 ³	Inhibited	0%	-	35-37°C	24-48 Hours
Staphylococcus aureus	25923	>=10 ³	Inhibited	0%	-	35-37°C	24-48 Hours
Pseudomonas maltophilia	13637	>=10 ³	Inhibited	0%	-	35-37°C	24-48 Hours

PACKAGING:

Inpacksizeof100 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

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

REFERENCES

1.King,WardandRaney, 1954, J. Lab. Clin. Med., 44:301.

 Good Manufacturing Practices Certified	 For In Vitro Diagnostic Use	 Quantity	 Lot / Batch Number	 Catalogue Number	 Manufacturer
 Temperature Unit	 Authorized Representative MedNet GmbH Buckstrasse 10, 48143 Münster, Germany	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

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

*For LabUse Only

