



Product Data Sheet

CETRIMIDE BROTH

Product No. GB-DCM-00067-1A

INTENDED USE

For selective isolation of *Pseudomonas aeruginosa*.

PRODUCT SUMMARY

Pseudomonas aeruginosa grows well on all normal laboratory media. Cetrimide Broth Base is the modification of the formula designed by King, Ward and Raney and is useful for the cultivation of *P. aeruginosa*. This medium is selective as it contains cetrimide (Cetyl trimethyl ammonium bromide), which inhibits other bacteria except *P.aeruginosa*. This medium is therefore, important in the identification of *P.aeruginosa*. Cetrimide Broth is used for the examination of cosmetics and clinical specimens for the presence of *P. aeruginosa*, as well as for evaluating the efficacy of disinfectants against this organism.

Product Specifications

Ingredients	Gms / Ltr
peptone	10.000
Beef extract	10.000
Sodium chloride	5.000
Cetrimide	0.300

PRINCIPLE

Peptone and beef extract provide necessary nutrients for *P.aeruginosa*. Cetrimide acts as a quaternary ammonium, cationic detergent that causes release of nitrogen and phosphorus from bacterial cells other than *Pseudomonas aeruginosa*. Sodium chloride maintains osmotic equilibrium in the medium.

INSTRUCTION FOR USE

- Dissolve 25.3 grams in 1000 ml purified / distilled water.
- Heat if necessary to dissolve the medium completely.
- Dispense in tubes or flasks or as desired.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. Cool to 45-50°C.



QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Cream to yellow coloured homogeneous free flowing powder
 Appearance of prepared medium Light amber coloured clear to slightly opalescent solution in tubes.
 pH (at 25°C) : 7.2±0.2

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.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Escherichia coli	25922	50-100	Inhibited	35-37°C	24-48 Hours
Pseudomonas aeruginosa	27853	>=10 ³	Luxuriant	35-37°C	24-48 Hours
Staphylococcus aureus subsp. aureus	25923	50-100	Inhibited	35-37°C	24-48 Hours

This product is for research use only.