

Cetrimide Agar

Use and description:

Medium, used for the selective isolation of *Pseudomonas aeruginosa*.

Cetrimide Agar is based on the enormous resistance of *Pseudomonas aeruginosa* strains to the quaternary ammonium compounds. MgCl₂ and K₂SO₄ stimulate blue pigment production. Cetrimide is the inhibitor agent.

Composition per liter:

Gelatin peptone.....20.0 g
Magnesium chloride.....1.4 g
Potassium sulphate.....10.0 g
Cetiltrimethyl-ammonium bromide.....0.3 g
Agar.....13.5 g

Final pH of the ready to use medium: 7.2 ± 0.2

Medium preparation:

Add 45.2 grams of dehydrated culture medium to 1 liter of distilled water. Heat with repeated stirring and boil for one minute to dissolve completely. Sterilize by autoclaving for 15 min at 121.0°C. Cool to 45.0°C and pour into sterile Petri dishes.

Quality specifications:

Dehydrated medium: homogenous, light beige fine powder.

Ready to use medium: light to medium beige and slightly hazy.

Microbiological response:

Organism	Result
<i>Escherichia coli</i> ATCC 25922	Inhibited
<i>Staphylococcus aureus</i> ATCC 25923	Inhibited
<i>Pseudomonas aeruginosa</i> ATCC 27853	Growth, yellow-green to blue pigment

Storage:

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.