

Product Name : Pseudomonas (cetrimide) Agar

Selective medium for isolation and identification of *Pseudomonas aeruginosa*.

CONTENTS (G/L)

Gelatin Peptone 20.0
Magnesium Chloride 1.4
Potassium Sulfate 10.0
Cetrimide 0.3
Agar 13.6
Final pH = 7.2 ± 0.2 at 25°C.

PROCEDURE

Suspend 45.3 G of powder in 990 mL of distilled or deionized water. Add 10mL of Glycerol supplement (MB-G1821). Heat until completely dissolve the powder. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Dispense in petri dish.

INTERPRETATION

Pseudomonas (cetrimide) Agar is a selective medium for the isolation and identification of *Pseudomonas aeruginosa*. Gelatine peptone provides nitrogen, carbon and nutrient. Magnesium chloride and potassium sulfate promote production of pigment. Cetrimide inhibits the growth of many microorganisms except *Pseudomonas spp.*. Agar is the solidifying agent.

TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 35 ± 2°C for 18-72 hours. *Pseudomonas aeruginosa* colonies will be yellow-green with pigment that diffuses into the medium.

QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

Prepared medium

Appearance: slightly opalescent.

Color: light amber.

Incubation conditions: 35 ± 2°C / 18-72 hours.

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Pseudomonas aeruginosa</i>	27853	50-100	good	yellow-green
<i>Escherichia coli</i>	8739	50-100	inhibited	-

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STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration are evident. Store prepared medium at 2-6°C.

REFERENCES

1. King, E.O., and D.E. Raney (1954). Two simple media for the demonstration of pyocyanin and fluorescin. J. Lab. Clin. 44, 301.
2. Gilligan, P.H. (1995). Pseudomonas and Burkholderia, p.509-519. In Manual of Clinical Microbiology, 6th ed. American Society for microbiology, Washington, D.C.
3. ISO 8360-1: 1998. Water quality – Detection and enumeration of *Pseudomonas aeruginosa* – Part 1: Method by enrichment in liquid medium.

PACKAGE

Cat. No : MB-P1041 Pseudomonas (cetrimide) Agar	500 G
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