

Acetamide Agar

Medium used for the isolation and identification of *Pseudomonas aeruginosa*.

*Equally use with NIER (MB-A1312N).

• CONTENTS (Liter)

Acetamide	10.0 g
Sodium Chloride	5.0 g
Dipotassium Phosphate	1.39 g
Monopotassium Phosphate	0.73 g
Magnesium Sulfate Heptahydrate	0.5 g
Phenol Red	0.012 g
Agar	15.0 g
Final pH = 7.0 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 32.63 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15minutes. Cool to 45-50°C in water bath. Mix well. Dispense in final tubes. Arrange tubes in a slanted position.

• INTERPRETATION

Acetamide Agar is used for the isolation and identification of *Pseudomonas aeruginosa*. Acetamide is a carbon source. Potassium salts have a high buffering capacity. Sodium chloride supplies essential electrolytes for transport and maintains osmotic balance. Phenol red is a pH indicator and agar is the solidifying agent.

• TECHNIC

Inoculate the tube to stab the bottom and spreading the specimen on the slant surface using a sterile needle. Incubate at 35 ± 0.5 °C or 41.5 ± 0.5 °C for 4 - 7 days. Slightly uncover the cap. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free flowing homogeneous.

Color: beige.

Prepared medium

Appearance : clear with no precipitate.

Color: orange-red.

Incubation conditions: 36 ± 0.5 °C or 41.5 ± 0.5°C / 4 - 7 days

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Pseudomonas aeruginosa</i>	27853	50-100	good	purple-red colonies

• 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 or contamination are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. Gilardi, G.L. 1974. Nonfermentative gram-negative bacteria encountered in clinical specimens. *Antonie van Leeuwenhoek J. Microbiol. Serol.* 39:229-242.
2. Stainier, R.Y., N.J. Palleroni, and M. Doudoroff. 1966. The aerobic *pseudomonads*: a taxonomic study. *J. Gen. Microbiol.* 43:159-271.
3. Pickett, M.J., and M.M. Pedersen. 1970. Characterization of saccharolytic nonfermentative bacteria associated with man. *Can. J. Microbiol.* 16:351-362
4. Refer to the NIER.

• PACKAGE

Cat. No : MB-A1312 Acetamide Agar	500 G
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• MICROBIAL CULTURE IMAGES



Incubation conditions : 36±0.5°C 7 days