

Acetamide Broth



Medium used for the identification and determination of non-fermentative Gram-negative bacteria, particularly *Pseudomonas aeruginosa*.

*Equally use with NIER (MB-A1313N).

• 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
Final pH = 7.0 ± 0.2 at 25°C	

• PROCEDURE

Suspend 17.63 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Pour into tubes.

• INTERPRETATION

Acetamide Broth is used for the identification and determination of non-fermentative Gram-negative bacteria, particularly *Pseudomonas aeruginosa*. Acetamide is added as carbon and nitrogen sources. Sodium chloride maintains the osmotic balance. Phosphates are buffering agents. Magnesium sulfate is a source of ions that stimulate metabolism. Phenol red is the pH indicator.

• TECHNIC

Inoculate fresh cultured colonies using a sterile loop to the medium or inoculate 0.1 mL of fresh cultures from presumptive medium (Asparagine Enrichment Broth, MB-A1138). Incubate at 35 ± 2°C for 24 - 36 hours up to 7 days. Slightly loosen the cap. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: orange red

Prepared medium

Appearance: clear

Color: orange red

Incubation conditions: 35 ± 2°C / 24 - 36 hours up to 7 days / loosen the cap

Microorganism	ATCC	Growth	Characteristics
<i>Pseudomonas aeruginosa</i>	27853	good	purple red
<i>Escherichia coli</i>	25922	partially inhibited	-

• 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. 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-A1313 Acetamide Broth	500 G
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• MICROBIAL CULTURE IMAGES



Incubation conditions : 35 ± 2°C / 2 - 4 days up to 7 days