

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 the specimen with stab using a sterile needle to the medium. Incubate at 35 ± 2°C for 18 - 24 hours. 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 / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Pseudomonas aeruginosa</i>	27853	50-100	good	purple red
<i>Escherichia coli</i>	25922	≥10 ³	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 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-A1313 Acetamide Broth	500 G
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