

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 \pm 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 $35 \pm 2^{\circ}$ 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 <u>Prepared medium</u> Appearance: clear Color: orange red Incubation conditions: $35 \pm 2^{\circ}C / 24 - 36$ hours up to 7 days / loosen the cap

Microorganism	ATCC	Growth	Characteristics
Pseudomonas aeruginosa	27853	good	purple red
Escherichia coli	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.

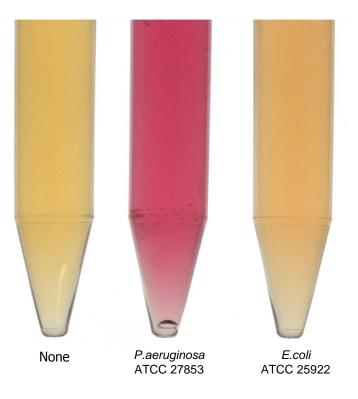
• REFERENCES

- 1. Gilardi, G.L. 1974. Nonfermentative gram-negative bacteria encountered in clinical specimens. Antonie van Leewenhoek 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 500 G

• MICROBIAL CULTURE IMAGES



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



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