

TM 1942 – ACETAMIDE AGAR, MODIFIED (DOUBLE PACK)

INTENDED USE

For confirmation of *Pseudomonas aeruginosa* in water samples.

PRODUCT SUMMARY AND EXPLANATION

Acetamide Agar, Modified is formulated as per recommendation of Standard Methods for Examination of Water and Wastewater. Gilardi and others showed that a wide variety of non-fermenting organisms were capable of utilizing acetamide by using basal mineral media. However very few organisms growing in the medium metabolize acetamide by the process of deamination (acrylamidase activity). This unique ability is useful in identification of various non-fermenting gram-negative organisms. This ability is shown by *Pseudomonas aeruginosa*, *Pseudomonas aciovorans* Group III (*Achromobacter xylosoxidans*) and *Alcaligenes odorans*.

COMPOSITION

Ingredients	Gms / Ltr
Part I	
Acetamide	3.000
Part II	
Sodium chloride	5.000
Yeast extract	0.500
Potassium dihydrogen phosphate	1.000
Phenol red	0.030
Dextrose (Glucose)	0.200
Agar	15.000

PRINCIPLE

Acetamide deamination leads to the liberation of ammonia, which thereby increases the pH of the medium, leading to a subsequent colour change of the phenol red indicator from yellow orange to purplish red. Some strains require upto seven days to exhibit a positive reaction as they deaminate acrylamide slowly. However, only about 40% of apyocyanogenic strains of *Pseudomonas aeruginosa* exhibit a positive reaction. It is therefore, not advisable to rely on this test as the only criterion for identification.

INSTRUCTION FOR USE

- Suspend 21.73 grams of part II in 1000 ml purified / distilled water.
- Add 3.0 grams of Part I. Heat to boiling to dissolve the medium completely.
- Dispense in tubes or flasks as desired.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. Cool the tubes in a slanted position.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Part I: Colourless deliquescent crystals Part II : Light yellow to brick red homogeneous free flowing powder.
Appearance of prepared medium pH (at 25°C)	: Orange coloured clear to slightly opalescent gel forms in tubes as slants. : 6.30±0.2

INTERPRETATION



Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU)	Growth	Deamination	Incubation Temperature	Incubation Period
<i>Stenotrophomonas maltophilia</i>	13637	50-100	Good-luxuriant	Negative reaction ,no purplish red colour within 7 days	35-37°C	4-7 days
<i>Pseudomonas aeruginosa</i>	27853	50-100	Good-luxuriant	Positive reaction, purplish red colour within 7 days	35-37°C	4-7 days

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.










Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

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8. Buhlmann, Vischer and Bruhin, 1961, J. Bacteriol., 82:787.
9. Gilardi, 1974, Antonie Van Leeuwenhoek, J. Microbiology Serol., 39:229.
10. Hedberg, 1969, Appl. Microbiol., 17: 481

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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