

Product Data Sheet

ACETAMIDE AGAR (DOUBLE PACK)

Product No. GB-DCM-00004-1A

Product Description

Acetamide Agar is formulated as per the recommendation of Standard Methods for the 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*..

Product Specifications

Ingredients	Gms / Ltr
Part I	
Acetamide	10.000
Part II	
Sodium chloride	5.000
Dipotassium hydrogen phosphate	1.390
Potassium dihydrogen phosphate	0.730
Phenol red	0.012
Magnesium sulphate	0.500
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. The medium contains inorganic salts and acetamide a sole carbon and nitrogen source. Sodium chloride maintains the osmotic equilibrium. Phenol red is the pH indicator..



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QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium: Light amber coloured clear solution after cooling to room temperature. PH (at 25°C): 6.9±0.1

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

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.

INSTRUCTION FOR USE

- Suspend 22.63 grams of part II in 1000 ml purified / distilled water.
- Add 10.0 grams of Part I and 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..

This product is for research use only.