



ACETAMIDE BROTH

Dehydrated medium for the confirmation test of *Pseudomonas aeruginosa* in bottled water

TYPICAL FORMULA (g/L)

Acetamide.....	10.0
Sodium chloride.....	5.00
Dipotassium phosphate.....	1.39
Monopotassium phosphate.....	0.73
Magnesium sulphate.....	0.5
Phenol red.....	0.012
Final pH	7.0 ± 0.2

DESCRIPTION

ACETAMIDE BROTH is a dehydrated medium used for the confirmation of *Pseudomonas aeruginosa* in bottled water.

PRINCIPLE

ACETAMIDE BROTH contains acetamide which, as a sole source of carbon in the medium, is used for the confirmation and identification of *Pseudomonas aeruginosa*. It uses the ability of non-fermenting Gram-negative bacteria to deaminate the acetamide, the resulting alkalization shown by a color change from orange-red to purple-red.

Acetamide deamination is accomplished by *P.aeruginosa*, *P.acidovorans*, Group III (*Achromobacter xylosoxidans*), and *Alcaligenes odorans*.

Acetamide is the single carbon source; the potassium salts have a high buffering capacity; sodium chloride maintains the osmotic balance and phenol red is the pH indicator.

PREPARATION

Suspend 17,2 g of powder in 1 litre of distilled or deionized water. If needed, heat gently to dissolve completely. Sterilize by filtration. Aseptically dispense into sterile test tubes.

TECHNIQUE

Inoculate with one or two loopfuls of growth from a presumptive fresh medium (ASPARAGINE ENRICHMENT BROTH code 610138). Incubate at 36 +/- 1°C for 2-4 days.

INTERPRETATION OF RESULTS

A positive reaction is indicated by a color change of the tube from orange-red to an intense purple-red. The presence of *P.aeruginosa* is confirmed by a positive asparagine test and a positive acetamide test.

STORAGE

The powder is very hygroscopic: store the powder at 10-30°C, 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 media at 2-8°C.

WARNING and PRECAUTIONS

The product is classified as hazardous by current legislation. It is recommended that the Safety Data Sheet be consulted before use. The product must be used only by properly trained operators.

DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

- Kelly, N.M., C.T. Keans (1983). Acetamide broth for isolation of *Pseudomonas aeruginosa* from patients with cystic fibrosis. J.Clin.Microbiol. 17:159:163.
- CeNAN (1982) Técnicas para el Examen microbiológico de Alimentos y Bebidas. Madrid



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PRODUCT SPECIFICATIONS

NAME

ACETAMIDE BROTH

PRESENTATION

Dehydrated culture medium

STORAGE

10-30°C

PACKAGING

Code	Content	Packaging
610313	500 gr	500 gr of powder in plastic bottle
620313	100 gr	100 gr of powder in plastic bottle

pH OF THE MEDIUM

7.0 ± 0.2

USE

ACETAMIDE BROTH is a dehydrated medium used for the confirmation of *Pseudomonas aeruginosa* in bottled water.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE of the MEDIUM

Dehydrated medium

Appearance: homogeneous.

Colour: beige

Prepared medium

Appearance: clear

Colour: orange-red

SHELF LIFE

4 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 25 ± 1°C, in aerobiosis
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control
Inoculum for productivity: 10-100 UFC/ml
Inoculum for selectivity: 10⁴-10⁵ UFC/ml
Inoculum for specificity: ≤ 10⁴ UFC/ml
Incubation conditions: up to 4 days at 36 ± 1°C, in aerobiosis

Microorganisms		Growth	Acetamide deamination
<i>Escherichia coli</i>	ATCC 25922	-	
<i>Proteus mirabilis</i>	ATCC 29906	-	
<i>Pseudomonas aeruginosa</i>	ATCC 9027	+	+
<i>Pseudomonas aeruginosa</i>	ATCC 27853	+	+

TABLE of SYMBOLS

Symbol	Meanings
	Catalogue number
	Manufacturer
	Temperature limitation
	Kit content
	Use by
	Batch code
	Do not reuse
	Consult accompanying documents



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