

Product Name :
Acetamide Broth Twin Pack

Product Code :
NLAB-CHEMICALSIND21025

Description :

Acetamide Broth Twin Pack

Technical Specification :

Acetamide Broth Twin Pack

Acetamide Broth Twin Pack is recommended for confirmation *Pseudomonas aeruginosa* in water samples.

Directions

Suspend 7.63 grams of part B in 1000 ml distilled water. Add 10.0 grams of Part A. Heat if necessary to dissolve the medium completely. Dispense in 10ml amounts in tubes or as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Acetamide Broth is formulated as per the recommendation of Standard Methods for the Examination of Water and Wastewater. Acetamide is utilized by a wide variety of non-fermenting organisms. This unique ability is useful in identification of various non-fermenting gram-negative organisms. The media contains inorganic salts and acetamide a sole carbon and nitrogen source. However very few organisms growing in the medium metabolize acetamide by the process of deamination. 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. Sodium chloride maintains osmotic equilibrium. Phenol red is the pH indicator. Phosphates in the media serve as buffering agents, Magnesium sulphate is a source of ions that stimulate metabolism whereas Acetamide serves as the sole nitrogen and carbon source.

Quality Control

Reaction: Reaction of the medium (Mixture of 1% w/v Part A and 0.76% w/v of Part B) at 25°C. pH : 7.0±0.2

Colour and Clarity of prepared medium: Orange coloured clear solution in tubes

pH: 6.80-7.20

Appearance:

Part A : Colourless deliquescent crystals

Part B : Light yellow to light pink homogeneous free flowing powder.

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