

Asparagine Enrichment Broth



Medium used for the detection of *Pseudomonas aeruginosa*.

*Equally use with NIER (MB-A1138N).

• CONTENTS (Liter)

DL-Asparagine	3.0 g
Dipotassium Hydrogen Phosphate	1.0 g
Magnesium Sulfate Heptahydrate	0.5 g
Final pH = 7.0 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 4.5 G of powder in 1 L of distilled or deionized water. If necessary add 8 mL of Glycerol supplement (MB-G1821). Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Dispense in final tubes. If necessary dispense the medium before autoclave. In the case of three strength medium, dissolve 13.5 G of dehydrated medium in 1 L of distilled or deionized water and proceed as the single strength medium.

• INTERPRETATION

Asparagine Enrichment Broth is selective medium used for the detection of *Pseudomonas aeruginosa* in pool and bathing waters. Asparagine is a carbon source. Dipotassium hydrogen phosphate and magnesium sulfate provide mineral compounds. The presence of *Pseudomonas aeruginosa* is shown by turbidity and a blue-green fluorescent pigment, observed with a long-wave ultraviolet light.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 35 ± 2°C for 20 - 24 hours up to 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: white.

Prepared medium

Appearance: clear with no precipitate.

Color: colorless.

Incubation conditions: 35 ± 2 °C / 20 - 24 hours up to 48 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Escherichia coli</i>	25922	≥10 ³	partially inhibited	-
<i>Pseudomonas aeruginosa</i>	27853	50-100	good	blue-green fluorescent

• 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 or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. APHA (1985). Standard methods for the Examination of water and wastewater, 16th ed. 978-980.
2. Refer to the NIER.

• PACKAGE

Cat. No : MB-A1138 Asparagine Enrichment Broth	500 G
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• MICROBIAL CULTURE IMAGES



None *P.aeruginosa* *E.coli*
ATCC 27853 ATCC 25922
(inhibited)

Incubation conditions : 35±2°C 24h