

Asparagine Enrichment Broth



Medium used for the identification and cultivation 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. Pour into tubes. 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 medium used for the identification and cultivation of *Pseudomonas aeruginosa*. Asparagine is a carbon source. Dipotassium hydrogen phosphate and magnesium sulfate heptahydrate 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 using a sterile needle to the medium. Incubate at 35 ± 2°C for 24 - 48 ± 3 hours up to 5 days. Loosen the caps. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: white

Prepared medium

Appearance: clear

Color: colorless

Incubation conditions: 35 ± 2°C / 24 - 48 ± 3 hours up to 5 days / Loosen the caps

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

• 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. Store prepared medium at 2 - 8°C.

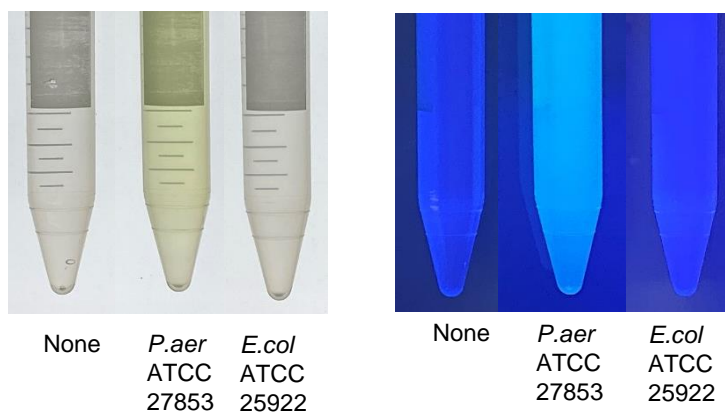
• REFERENCES

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



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