Arginine Broth

Medium used for the isolation and cultivation of *Pseudomonas aeruginosa*.

• CONTENTS (Liter)

Peptones	19.5 g
Glucose	0.5 g
Sodium Chloride	5.0 g
L-Arginine	10.0 g
Bromothymol Blue	0.0075 g
Brilliant Green	0.00038 g

Final pH = 7.0 ± 0.2 at 25°C

• PROCEDURE

Suspend 35.01 G of powder in 1 L of distilled or deionized water. 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.

• INTERPRETATION

Arginine Broth is a medium used for the isolation and cultivation of *Pseudomonas aeruginosa*. Peptones provide carbon, nitrogen, vitamins and minerals. Glucose is the fermentable carbohydrate. Sodium chloride maintains the osmotic balance. L-arginine is added to detect arginine dihydrolase. Bromothymol blue is a pH indicator. Brilliant green is a selective agent for the inhibition of Gram-positive bacteria and coliforms.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 35 ± 2°C for 18 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

<u>Dehydrated medium</u>
Appearance: free-flowing, homogeneous
Color: light beige
<u>Prepared medium</u>
Appearance: slightly opalescent
Color: light green
Incubation conditions: 35 ± 2°C / 18 - 48 hours

Microorganisms	ATCC	Inoculum CFU	Growth	Characteristics
Pseudomonas aeruginosa	27853	50-100	good	blue
Escherichia coli	25922	50-100	good	yellow (blue after 24 hours)

• 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. Schubert (1989) Zbl. Bakt. Hyg. B 187: 266.

• PACKAGE

Cat. No : MB-A2115 Arginine Broth	500 G