

Arginine Broth



Medium used for the 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 = 7.4 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 35.0 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. Dispense in final tubes.

• INTERPRETATION

Arginine Broth is a medium used for the cultivation of *Pseudomonas aeruginosa*. Peptones provide nitrogen, vitamins and nutrients while L-arginine stimulates the arginine dihydrolase synthesis. Glucose is the fermentable carbohydrate. Sodium chloride maintains osmotic balance. Bromothymol blue is pH indicator. Brilliant green is selective agent for inhibition of gram-positive bacteria and coliforms.

• TECHNIC

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

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light yellow to light green.

Prepared medium

Appearance: slightly opalescent.

Color: light green.

Incubation conditions: 35 ± 2°C / 18 - 48 hours

Microorganisms	ATCC	Inoculum CFU	Growth	Characteristics
<i>Pseudomonas aeruginosa</i>	27853	50-100	good	bluish green
<i>Escherichia coli</i>	25922	50-100	good	yellow (bluish green after 24hr)

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

• PACKAGE

Cat. No : MB-A2115 Arginine Broth	500 G
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