

## BROMOCRESOL PURPLE AZIDE BROTH

Medium in powder for confirming the presence of enterococci in the bacteriological analysis of water.

### TYPICAL FORMULA (g/l)

Triptone	10.0
Yeast extract	10.0
Glucose	5.0
Sodium chloride	5.0
Potassium Phosphate monobasic	2.7
Potassium Phosphate dibasic	2.7
Sodium azide	0.5
Bromocresol purple	0.032
pH finale	7.0 ± 0.2

### DESCRIPTION

**BROMOCRESOL PURPLE AZIDE BROTH** is a medium in powder used in the bacteriological analysis of water as confirmation of presence of enterococci, after preliminary test with AZIDE DEXTROSE BROTH (ref. 610003).

### PRINCIPLE

Tryptone and yeast extract provide nitrogen and other nutrients necessary to support the bacterial growth. Sodium chloride keeps the osmotic balance of the medium. Sodium azide inhibits the bacterial flora grown during the preliminary test, except for enterococci. Glucose fermentation causes medium acidification with consequent medium color change from purple to yellow. The addition of glycerol increases glucose fermentation by enterococci.

### PREPARATION

Suspend 36.0 g of powder into 1 liter of distilled or deionized water. Add 5 mL of glycerol. Mix carefully. Dispense into final containers. Sterilize at 115 °C for 15 minutes.

### TECHNIQUE

For the performance of confirmation trial, transfer three loops of culture broth from each positive tube of AZIDE DEXTROSE BROTH into tubes of **BROMOCRESOL PURPLE AZIDE BROTH**.

Incubate at 36±1 °C up to 48 hours.

### INTERPRETATION OF RESULTS

The evidence of turbidity and the color change from purple to yellow of the tube of **BROMOCRESOL PURPLE AZIDE BROTH** confirm enterococci presence.

### STORAGE CONDITIONS

10-30 °C away from light, until the expiry date indicated on the label or until signs of deterioration or contamination are evident.

### WARNING AND PRECAUTION

**BROMOCRESOL PURPLE AZIDE BROTH** contains substances classified as harmful by current legislation; for its use it is recommended to consult the safety data sheet. The product must be used only by properly trained operators.

### DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

### REFERENCES

1. HAJNA, A.A.: A buffered azide glucose-glycerol broth for presumptive and confirmative tests for faecal Streptococci- Publ.Health Lab., 9; 80-814 (1951).
2. HAJNA, A.A., a . PERRY, C.A.: Comparative Study of Presumptive and Confirmative Media for Bacteria of the Coliform Group and for Fecal Streptococci.- Am.J.Publ.Health, 33;550-556



LIOFILCHEM Bacteriology Products

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## PRODUCT SPECIFICATIONS

### NAME

**BROMOCRESOL PURPLE AZIDE BROTH**

### PRESENTATION

Dehydrated culture medium

### STORAGE

10-30°C

### PACKAGING

Code	Content	Packaging
610321	500 g	500 g powder in plastic bottle
620321	100 g	100 g di powder in plastic bottle

### pH OF THE MEDIUM

7.0 ± 0.2

### USE

**BROMOCRESOL PURPLE AZIDE BROTH** is a culture medium in powder used in the bacteriological analysis of water as confirmation of the presence of enterococci, after preliminary test with AZIDE DEXTROSE BROTH (ref. 610003).

### TECHNIQUE

Refer to technical sheet of the product.

### APPEARANCE OF THE MEDIUM

Dehydrated medium

Appearance : homogeneous

Color: beige

Ready medium

Appearance: light color

Color: purple

### SHELF LIFE

4 years

### QUALITY CONTROL

1. Control of generic characteristics, label and print

2. Control of sterility

7 days at 25 ± 1 °C, in aerobiosis

7 days at 36 ± 1 °C, in aerobiosis

3. Microbiological control

Inoculum for productivity: 10-100 UFC/ml

Inoculum for productivity: 10<sup>4</sup>-10<sup>5</sup> UFC/ml

Inoculum for productivity: ≤ 10<sup>4</sup> UFC/ml

Incubation conditions: 24-48 hours at 36 ± 1 °C, in aerobiosis

Microorganisms	Results	
	Growth	Color
<i>Streptococcus agalactiae</i> ATCC 13813	weak	purple
<i>Enterococcus faecalis</i> ATCC 19433	good	yellow
<i>Staphylococcus aureus</i> ATCC 25923	inhibited	
<i>Escherichia coli</i> ATCC 25922	inhibited	

### TABLE OF SYMBOLS

<b>LOT</b> Batch code	Temperature limitation	Manufacturer	Contains sufficient for <n> tests
<b>REF</b> Catalogue number	Keep away from heat	Use by	Caution, consult accompanying documents



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