



AZIDE DEXTROSE BROTH

Selective medium for the detection of enterococci in water and sewage

TYPICAL FORMULA (g/l)

Tryptose.....	15.0
Beef extract.....	4.5
Sodium Chloride.....	7.5
Glucose.....	7.5
Sodium Azide.....	0.2
Final pH 7.2 ± 0.2	

DESCRIPTION

AZIDE DEXTROSE BROTH is a selective medium for the detection of enterococci in water and sewage.

The presence of enterococci serves as indicator for faecal contamination, particularly when this took place a long time ago and the less resistant coliform bacteria, including *E.coli*, may be already dead when the analysis is carried out.

PRINCIPLE

Beef extract and tryptose are sources of nitrogen, carbon, vitamins, minerals and amino acids. Glucose is the fermentable carbohydrate. Sodium chloride maintains the osmotic balance of the medium. Sodium azide inhibits cytochrome oxidase in gram-negative bacteria.

PREPARATION

Check the content of the tube is homogeneous and clear and fermentation vials are inverted.

TECHNIQUE

Small sample volumes (up to 1 mL) can be added to the normal strength broth.

Incubate at 35 ± 2°C for 24 hours. If no growth has occurred continue incubation for further 24 hours.

INTERPRETATION OF RESULTS

If the broth becomes turbid due to microbial growth it is likely that enterococci are present.

Confirm the presumptive result with a subculture in E.V.A. BROTH (code 20101).

If the broth does not become turbid enterococci are not present.

STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. 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. Standard Methods for the Examination of Water and Wastewater, 20th edition. Washington 1998
2. OMS (1965) – Normes Internationales pour l'Eau de Boisson, deuxième édition.



Liofilchem s.r.l Bacteriology Products

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PRODUCT SPECIFICATIONS

NAME

AZIDE DEXTROSE BROTH

PRESENTATION

Glass tubes containing 10 ml of broth.

PACKAGING

Code	Content	Packaging
20114	10 tubes x 10 ml	10 tubes in cardboard box

pH OF THE MEDIUM

7.2 ± 0.2

USE

AZIDE DEXTROSE BROTH is a selective medium for the detection of enterococci in water and sewage.

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TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE OF THE MEDIUM

Light amber, clear to very slightly opalescent.

SHELF LIFE

2 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 25 ± 1°C, in aerobiosis
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control
Inoculum for productivity: 10-100 UFC/ml
Inoculum for selectivity: 10⁴-10⁵ UFC/ml.
Inoculum for specificity: ≤ 10⁴ UFC/ml.
Incubation conditions: 35 ± 2°C for 18-24 hours.

Microorganism		Growth
<i>Escherichia coli</i>	ATCC 25922	Inhibition
<i>Enterococcus faecalis</i>	ATCC 19433	Good

TABLE OF SYMBOLS

Symbol	Meanings
	Catalogue number
	Manufacturer
	Temperature limitation
	Kit contents
	Use by
	Batch code
	Consult accompanying documents
	Do not reuse
	Fragile, handle with care



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