

## AZIDE DEXTROSE BROTH

Selective medium for fecal streptococci detection and enumeration in waters and foodstuffs.

### TYPICAL FORMULA (g/l)

Tryptose	15.0
Beef Extract	4.5
Glucose	7.5
Sodium Chloride	7.5
Sodium Azide	0.2

Final pH = 7.2 ± 0.2 at 25 °C.

### DIRECTIONS

Suspend 34.7 g (single strength medium) or 69.4 g (double strength medium) of powder in 1 liter of distilled or deionized water. Heat until completely dissolved. Dispense into final containers. Sterilize in autoclave at 121 °C for 15 minutes.

### DESCRIPTION

AZIDE DEXTROSE BROTH is a selective broth used for presumptive identification and enumeration of fecal streptococci in waters and foodstuffs. Their presence is indicated by turbidity of the broth and evaluated according to the most probable number method (MPN).

### TECHNIQUE

Inoculate a series of Azide Dextrose Broth tubes with approximately graduated quantities of sample. Use quantities of 10 ml or less. Use double strength broth for 10 ml inocula. Consult an appropriate reference for suggested sample sizes. Incubate inoculated tubes at 36 ± 1 °C for 20-48 hours.

Examine each tube for turbidity at the end of 24 ± 2 hours. If no turbidity is evident, reincubate and read again at the end of 48 ± 3 hours.

### QUALITY CONTROL

#### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

#### Prepared medium

Appearance: clear.

Color: light to medium amber.

Incubation conditions: 36 ± 1 °C for 20-48 hours.

Microorganism	ATCC	Growth
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<i>Escherichia coli</i>	25922	none
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<i>Streptococcus faecalis</i>	19433	good
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<i>Streptococcus faecalis</i>	29212	good
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### PERFORMANCE AND LIMITATIONS

Azide Dextrose Broth is used for presumptive detection of fecal contamination and further culture tests must be done for confirmation.

### PRECAUTIONS

Azide Dextrose Broth contains sodium azide. This substance is harmful by inhalation and if swallowed, irritating to eyes, respiratory system and skin. Consult safety data sheet for further details. Sodium azide reacts with many metals, especially copper, to produce explosive metal azides.



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## STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, 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 tubes at 2-8 °C.








## REFERENCES

1. Larkin, E.P., W. Litsky, and J.E. Fuller. 1955 Appl. Microbiol. **3**:98
2. Eaton, A.D., L.S. Clesceri, and A.E. Greenberg (eds). 1995. 19th ed. American Health Association.
3. Rothe. 1948. Illinois State Health Department.

## PRESENTATION

Product	REF	
AZIDE DEXTROSE BROTH (14.4 l)	610003	500 g
AZIDE DEXTROSE BROTH (2.8 l)	620003	100 g

## TABLE OF SYMBOLS

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



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