

**Product :  
AZIDE DEXTROSE BROTH according to  
ROTHER**
**Specification**

Medium for the detection and enumeration of enterococci in water.

**Formula \* in g/L**

Meat peptone.....	10.0
Casein peptone.....	10.0
Dextrose.....	5.0
Sodium chloride.....	5.0
Dipotassium hydrogen phosphate.....	2.7
Potassium dihydrogen phosphate.....	2.7
Sodium azide.....	0.2

Final pH 7,0 ±0,2 at 25 °C

\* Adjusted and /or supplemented as required to meet performance criteria

**Directions**

Dissolve 35,6 g in 1 L of distilled water. Heat if necessary to dissolve. Divide into 10 mL volumes and pour into tubes. Sterilize in the autoclave at 121°C for 15 minutes. For double strength medium, dissolve 71,2 g/L.

**Technique**
**Water Samples**

Add 10 mL of water to be examined to each of three tubes containing 10 mL of double strength medium. Add 1 mL of sample to an additional three tubes containing 10 mL, of single strength medium. Then add 0.1 mL of water to each of three tubes containing 10 mL of single strength medium. Incubate at 36±2°C and examine after 24 and 48 hours. All tubes which are turbid due to growth will be considered as presumptively positive and will have to be confirmed using EVA Broth. All tubes which are positive on this second testing should be considered for testing using the Most Probable Number (MPN) count method.

When considering other type of samples, dilute them in 1/4 Ringer's solution or peptone water and then inoculate the tubes as previously described.

In highly contaminated samples, dilutions should be carried out prior to inoculation.

**Quality control**

**Incubation temperature:** 36°C ± 2,0

**Incubation time:** 24 - 44h ±4

**Inoculum:** Practical range 100 ± 20 CFU. min. 50 CFU (productivity) / 10<sup>4</sup>-10<sup>6</sup> CFU (selectivity) according to ISO 11133:2014/Amd 1:2018.

Microorganism	Growth	Remarks
<i>Staphylococcus aureus</i> ATCC® 25923	Inhibited	-
<i>Escherichia coli</i> ATCC® 25922	Inhibited	-
<i>Enterococcus faecalis</i> ATCC® 29212	Good to very good	-
<i>Enterococcus faecalis</i> ATCC® 19433	Good to very good	-

**References**

- CLESCERI, L., A.E. GREENBERG & E.A. EATON (1998) Standard Methods for the Examination of Water and Wastewater. APHA-AWWA- WEF. 20th ed. Washington.
- DOWNES, F.C. & K. ITO (2001) Compendium of Methods for the Microbiological Examination of Foods. 4th ed. APHA. Washington.
- GUINEA, SANCHO & PARÉS (1979) Análisis Microbiológico de Aguas: Aspectos Aplicados. Ed. Omega. Barcelona.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- ROTHE (1948) Illinois State Health Department.

**Storage**

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).