

## ETHYL VIOLET AZIDE (EVA) BROTH

Powdered and ready to use selective medium for the detection of enterococci

### Typical formula (g/l)

Tryptose	20.00
Sodium Chloride	5.00
Glucose	5.00
Dipotassium Hydrogen Phosphate	2.70
Potassium Dihydrogen Phosphate	2.70
Sodium Azide	0.40
Ethyl Violet	0.83 mg

### Directions

Suspend 35.8 g in 1000 ml of cold distilled water, heat to dissolve completely, distribute and autoclave at 121°C for 15 minutes.

Final pH 7.0 ± 0.2

### Description

Ethyl Violet Azide Broth is a selective medium for the detection of enterococci in water, as a faecal pollution indicators. It is used for the confirmatory test of enterococci, sub-culturing from the tubes of Azide Dextrose Broth. The medium is a modification of the original formula of Litsky et al. Together with ethyl violet, sodium azide makes the medium selective for enterococci by inhibiting all other Gram-positive and Gram-negative bacteria.

### Technique

1. Incubate the inoculated tubes of Azide Dextrose Broth at 37°C for 24-48 hours.
2. Transfer three loopfuls of microbial growth from the positive tubes of Azide Dextrose Broth, into tubes containing 10 ml of Ethyl Violet Azide Broth, and incubate for 24 hours at 37°C.
3. The presence of enterococci is shown by the clouding of the broth and the formation of a purple ring on the bottom of the tubes.

### User quality assurance (37°C-48 h)

Productivity control

*E. faecalis* ATCC 29212: growth

Selectivity control

*E. coli* ATCC 25922: inhibited

*S. pyogenes* ATCC 19615: inhibited

### Storage

Dehydrated medium: 10-30°C

Ready to use tubes: 2-8°C

User prepared tubes and flasks: 1 month at 2-8°C

### References

- APHA (1976), Standard Methods for the Examination of Water and Wastewater, 14th edition
- Litsky, W., Mallmann, W.L. & Fifield, C.V. (1953) Amer. J. Pub. Hlth. **43**, 873.

### Packaging

**401485 Ethyl Violet Azide (EVA) Broth, 100 g (2.8 l)**

**401485 Ethyl Violet Azide (EVA) Broth, 500 g (14 l)**

**551485 EVA Broth, 20 x 10 ml ready to use tubes**