OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Ethyl Violet Azide Broth (E.V.A. Broth)

Principle

Ethyl violet azide broth is composed of tryptose, dextrose, dipotassium phosphate, monopotassium phosphate, sodium chloride, sodium azide and ethyl violet. Tryptose provides nitrogen. Dextrose is carbon source. Dipotassium phosphate and monopotassium phosphate are buffering agents. Sodium chloride maintain osmatic balance. Sodium azide and ethyl violet inhibits gram-positive bacilli and gam positive cocci other than enterococci.

Use: For selective and confirmatory detection of Enterococci as an indicator of faecal pollution in water.

Contents*

Ingredients	Gram/Litre
Tryptose	20.000
Dextrose	5.000
Dipotassium Phosphate	2.700
Monopotassium Phosphate	2.700
Sodium Chloride	5.000
Sodium Azide	0.400
Ethyl Violet	0.0008
pH at 25˚C	7.0 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 35.80 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute aseptically. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

Specimens types analyzed

Water samples etc

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Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	**Light beige colored free flowing, homogeneous powder**
Reaction of 3.5% solution	**7.0 ±0.2 at 25 ˚C**
pH	**6.80- 7.20**
Color and clarity of ready medium	**Light amber colored opalescent solution**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37 ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response

Organism	Inoculum	Inoculum	Growth	Incubation Temperature	Incubation period
Enterococcus faecalis	**14506**	**50-100**	**Luxuriant**	**33-37 ºC**	**24-48 h**
Escherichia coli	**8739**	**50-100**	**Inhibited**	**33-37 ºC**	**24-48 h**

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.
Note: Sterilize media immediately after reconstitution.

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Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. **Atlas, R. M. (2005).** ***Handbook of media for environmental microbiology*****. CRC press.**
2. ***Difco Manual*** **(1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**

Disclaimer:

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