

TECHNICAL DATA SHEET

Ethyl Violet Azide Dextrose Agar

Principle

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

Use: For detecting and confirming Streptococci and faecal pollution indication 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
Agar	15.000
pH at 25°C	7.0 ±0.2

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

Directions: Dissolve 50.80 grams in 1000 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and distribute in petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Water samples etc

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ISO 9001-2008 Certified Company

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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 5.08% solution	7.0 $\pm$ 0.2 at 25 °C
pH	6.80- 7.20
Color and clarity of ready medium	Light amber colored opalescent gel
Growth Promotion properties	Best at $\leq$ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at $\leq$ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response: Prepare media as per the label directions. Inoculate (Inoculum 50-100 CFU) and incubate at 35 $\pm$ 2°C for 24-48 hours.

Organism	ATCC	Recovery	Growth
<i>Enterococcus faecalis</i>	29212	$\geq$ 60%	Luxuriant
<i>Escherichia coli</i>	8739	--	Inhibited
<i>Escherichia coli</i>	25922	--	Inhibited

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.
3. Greenberg A. E., Trussell R. R. and Clesceri L. S., (Eds.), 1998, Standard Methods for the Examination of Water and Wastewater, 20th Ed., APHA, Washington, D.C.

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