

TECHNICAL DATA SHEET

Violet Red Bile Agar

Principle

Violet red bile lactose agar is recommended by APHA (1978) and ISO (1991). Violet red bile lactose agar contains yeast extract, pancreatic digest of gelatin, bile salts, sodium chloride, lactose, neutral red, crystal violet and agar. The pancreatic digest of gelatin serves as a source of carbon, nitrogen, vitamins and minerals. Yeast Extract supplies additional nitrogen, carbon and vitamins which stimulate bacterial growth. Lactose is a source of carbohydrate. Bile salts and crystal violet perform inhibitory action and inhibit gram positive bacteria. The fermentation of lactose to acid is indicated by the pH indicator neutral red, which changes its color to red, and by precipitation of bile acids. Organisms that rapidly attack lactose produce red purple colonies surrounded by purple haloes. While the Non-fermenters or late lactose-fermenters produce pale colonies with greenish zones. Agar is a solidifying agent.

Use: For isolation and enumeration of coli-aerogenes in water, milk and other dairy food products.

Contents*

Ingredients	Gram/Litre
Yeast Extract	3.000
Pancreatic Digest of Gelatin	7.000
Bile Salts	1.500
Sodium Chloride	5.000
Lactose	10.000
Neutral Red	0.030
Crystal Violet	0.002
Agar	15.000
pH at 25°C	7.4 ±0.2

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

Directions: Dissolve 41.50 grams in 1000 ml distilled water. Heat to boil for 2 minutes to dissolve ingredients completely, Do Not Autoclave. In aseptic condition immediately cool it to 42-45°C and distribute in sterile petri plates and allow solidify. Ensure complete solidification and inoculate test sample.

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Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

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	Pink-beige colored free flowing, homogeneous powder
Reaction of 4.15% solution	7.4 $\pm$ 0.2 at 25 °C
pH	7.20- 7.60
Gelling	Firm comparable with 1.5% agar gel
Color and clarity of ready medium	Reddish-purple, slightly 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

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Different Microbial Response: Cultural characteristics observed after incubation at 33-37°C for 18-24 hours.

Organism	ATCC	Inoculum (CFU)	Growth	Recovery	Colony color
<i>Escherichia coli</i>	8739	50-100	Luxuriant	≥ 60%	Pink-red with bile precipitate
<i>Escherichia coli</i>	25922	50-100	Luxuriant	≥ 60%	Pink-red with bile precipitate
<i>Klebsiella aerogenes</i>	13048	50-100	Luxuriant	≥ 60%	Pinkish
<i>Salmonella enteritidis</i>	13076	50-100	Luxuriant	≥ 60%	Colorless
<i>Staphylococcus aureus</i>	25923	50-100	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.

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. American Public Health Association, Standard Methods for the Examination of Dairy Products, (1978), 14th Ed., Washington D.C.
3. International Organization for Standardization (ISO), 1991, Draft ISO/DIS 43

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