

TECHNICAL DATA SHEET

Modified Voges Proskauer Medium

Principle

Modified Voges Proskauer VP broth contains Protease peptone as a carbon and nitrogen source for general growth requirements. Dextrose is a fermentable carbohydrate. Sodium Chloride stabilizes osmotic pressure. The coliforms and aerogens group of bacteria metabolize pyruvate by the butylene glycol pathway and produce neutral end products, one of which is acetoin (acetylmethylcarbinol). If acetyl methyl carbinol is produced, react with α - naphthol in presence of strong alkali (40% KOH), and atmospheric oxygen, converted to diacetyl. The diacetyl and quinidine containing compounds found in the peptones of the medium condense to form a pinkish red polymer.

Use: For performance of the Voges- Proskauer test in differentiation of *Bacillus cereus* in accordance with FDA BAM 1998

Contents*

Ingredients	Gram/Litre
Protease Peptone	7.00
Glucose	5.00
Sodium Chloride	5.00
pH at 25°C	6.5 $\pm$ 0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 17.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute aseptically in test tubes. 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

Pharmaceutical samples, clinical and Food 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 1.7% solution	6.5 ±0.2 at 25 °C
pH	6.30-6.70
Color and clarity of ready medium	Light amber colored clear opalescent solution
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 hours.
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 hours.
Negative control	Performed using sterile distilled water

Different Microbial Response

Prepare VP Broth as per label directions. Inoculate and incubate at 35 ± 2°C for 24-48 hours or up to 3 days. Determine the methyl red and Voges-Proskauer test reactions.

Organism	Growth	VP test
<i>Escherichia coli</i> (ATCC 25922)	Luxuriant	No color change (Negative reaction)
<i>Bacillus cereus</i> (ATCC 10876)	Luxuriant	Pink or red color (Positive reaction) within 2-5 minutes

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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. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
3. Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), *Standard methods for the examination of water and wastewater*. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.

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