



Quick Reagents

INSTRUCTION MANUAL

Product Code: SS1049515

Product Name: Voges-Proskauer B 40% Reagent, KOH

SUMMARY :

Certain bacteria produce stable acid end products when cultivated in specific media. After fermentation of glucose, particular enteric bacteria metabolize pyruvic acid to acetylmethyl carbinol. This end product reacts with alpha naphthol in the presence of 40% potassium hydroxide to produce a red color complex.

USE :

TriStains Voges-Proskauer Reagents are recommended for use in determining the Voges-Proskauer (VP) reaction of bacteria.

REAGENT FORMULA :

Potassium Hydroxide, Deionized water

STORAGE AND SHELF LIFE :

Upon receipt store at 2-30°C. Products should not be used if there are any signs of contamination, deterioration, or if the retest date has passed. Do not expose to excessive heat or moisture.

The retest date on the product label applies to the product in its intact packaging when stored as directed. The product may be used and tested up to the retest date on the product label and incubated for the recommended incubation times as stated below.

PHYSICAL APPEARANCE :

- Voges-Proskauer Reagent B should appear clear and colorless.

PRECAUTIONS :

This product may contain components of animal origin. Certified knowledge of the origin and/or sanitary state of the animals does not guarantee the absence of transmissible pathogenic agents. Therefore, it is recommended that these products be treated as potentially infectious, and handle observing the usual Universal Precautions for blood. Do not ingest, inhale, or allow to come into contact with skin.



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This product is for in vitro diagnostic use only. It is to be used only by adequately trained and qualified laboratory personnel. Observe approved biohazard precautions and aseptic techniques. All laboratory specimens should be considered infectious and handled according to "standard precautions." Refer to the document "Guidelines for Isolation Precautions" from the Centers for Disease Control and Prevention.

For additional information regarding specific precautions for the prevention of the transmission of all infectious agents from laboratory instruments and materials, and for recommendations for the management of exposure to infectious disease, refer to CLSI document M29: Protection of Laboratory Workers from Occupationally Acquired Infections.

Sterilize all biohazard waste before disposal.

Warning! Voges-Proskauer Reagent B is extremely caustic; it will cause burns.

Avoid contact with skin. If contact occurs, rinse thoroughly with copious amounts of water.

PROCEDURE :

Specimen Collection: This product is not intended for primary isolation of patient specimens. It should be used in conjunction with other biochemical tests to identify cultures of isolated organisms.

METHOD OF USE :

Inoculate VP medium with the test organism. Incubate 24 to 48 hours at 35°C Aseptically transfer 1ml of the incubated broth to a clean test tube. Add 15 drops of followed by 5 drops of Voges-Proskauer Reagent B. Shake gently to aerate. Examine for the appearance of a red color within 20 minutes. If the 24 hour test is negative, repeat the test with a 48 hour culture of the test organism. If equivocal results are obtained,

INTERPRETATION OF RESULTS :

Positive reactions are denoted by the development of a red color within 20 minutes. Negative reactions remain yellow to amber. Development of a copper color should be considered negative. Hold negatives for an additional 45 minutes since the maximum color development occurs 1 hour after the reagents are added. Do not read the test after more than 1 hour of incubation.

LIMITATIONS :

It is recommended that biochemical, immunological, molecular, or mass spectrometry testing be performed on colonies from pure culture for complete identification of bacteria and/or fungi.

The Voges-Proskauer test may be used in the identification of gram-negative bacteria. Additional biochemical testing using pure culture is recommended for complete identification.



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Prolonged incubation (greater than 72 hours at 35°C.) of certain VP-positive strains of Enterobacteriaceae may result in false-negative reactions due to the breakdown of acetylmethyl carbiol.

The order of the addition of reagents is extremely important. Reversal of the order may result in weak positive reactions or false-negative reactions.

QUALITY CONTROL :

TriStains tests each lot of commercially manufactured media using appropriate quality control microorganisms and quality specifications as outlined on the Certificate of Analysis (CofA) and the CLSI document M22-A3 Quality Assurance for Commercially Prepared Microbiological Culture Media. The following microorganisms are routinely used for testing at TriStains:

Test Organisms	Reaction
Enterobacter cloacae ATCC® 23355	Positive VP; red color change
Escherichia coli ATCC® 25922	Negative VP; no color change

USER QUALITY CONTROL :

It is recommended that each new lot or shipment of reagent be tested with known positive and negative controls.

REFERENCES :

- 1) Versalovic, J., et al. Manual of Clinical Microbiology. American Society for Microbiology, Washington, D.C.
- 2) Tille, P., et al. Bailey and Scott's Diagnostic Microbiology, C.V. Mosby Company, St. Louis, MO.
- 3) Anderson, N.L., et al. Cumitech 3B; Quality Systems in the Clinical Microbiology Laboratory, Coordinating ed., A.S. Weissfeld. American Society for Microbiology, Washington, D.C.

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