

VP (KOH) Reagent

Reagents for performing the Voges-Proskauer test.

DESCRIPTION

VP (KOH) Reagent contains a 6% (w/v) solution of alpha-naphthol and a 40% (w/v) solution of potassium hydroxide used to carry out the Voges-Proskauer test for the identification of Enterobacteriaceae.

CONTENT OF THE KIT

Each package contains:

- 5 vials of 10 ml of sodium alpha-naphthol;
- 5 vials of 10 ml of potassium hydroxide;
- 2 empty dropper bottles;

METHOD PRINCIPLE

The Voges-Proskauer reaction is used as qualitative test to distinguish between members of Enterobacteriaceae on the basis of the capability to produce acetylmethylcarbinol (acetoin) as a fermentation product from glucose. The positive reaction to the Voges-Proskauer test is denoted by the development of a red color obtained from acetoin oxidation in the presence of alkali and oxygen.

COMPOSITION

Alpha-naphthol: 6% (w/v) solution of alpha naphthol in ethyl alcohol.

KOH 40%: 40% (w/v) solution of potassium hydroxide.

TEST PROCEDURE AND RESULTS INTERPRETATION

Use VP (KOH) Reagent on the EnteroPluri-Test (ref. 78618/78619) as indicated in the instructions for use that accompany the product. Briefly, lay EnteroPluri-Test with its flat surface pointing upward and, punching the plastic film, inject with a syringe 3 drops of alpha-naphthol and 2 drops of potassium hydroxide in the sector VP. The positive test is given by the development of a bright red colour within 20 minutes after addition of reagents.

QUALITY CONTROL FOR THE USER

1. Appearance control: the alpha naphthol solution appears limpid and beige; the potassium hydroxide solution appears clear limpid colourless.
2. Microbiological control.

Control strains

Control strains	ATCC®	VP test	
<i>Enterobacter cloacae</i>	13047	Red colour	Positive
<i>Escherichia coli</i>	25922	No colour development	Negative

LIMITATIONS

One should allow at least 20 min for color to develop before considering the Voges-Proskauer test negative.

PRECAUTIONS

VP (KOH) Reagent is classified as hazardous under current legislation; for its use it is recommend to consult the MSDS. The products is a disposable device to be used only for in vitro diagnostic use, is intended for professional use and should be used in the laboratory by properly trained operator, with approved methods of aseptic and safety against pathogens.

STORAGE

Store at 2-8°C away from light in its original package, until the expiry date shown on the label. Eliminate if signs of deterioration or contamination are evident.

ELIMINATION OF THE USED MATERIAL

After use, VP (KOH) Reagent and the material that comes in contact with the sample must be decontaminated and disposed in accordance with the techniques used in the laboratory for decontamination and disposal of potentially infectious materials.











BIBLIOGRAPHY

1. Barritt, M.M. (1936) The intensification of the Voges-Proskauer reaction by the additon of α -naphthol. J. Pathol. Bacteriol. 42:441-454.
2. Edwin H. Lenette (1995) Manual of Clinical Microbiology.
3. Blazevic, D.J., and Ederer, G.M. (1975) Principles of biochemical tests in diagnostic microbiology. 63-67. New York, John Wiley & Sons.

PRESENTATION

Product	Ref.	Contents
VP (KOH) Reagent	80281	5 x 10 ml vials 5 x 10 ml vials

TABLE OF SYMBOLS

 LOT	Batch code	 IVD	In vitro Diagnostic Medical Device		Manufacturer		Use by		Fragile, handle with care
 REF	Catalogue number		Temperature limitation		Contains Sufficient for <n> tests		Consult instructions for use		Do not reuse



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