

POTASSIUM HYDROXIDE, SOLUTION FOR FUNGI

IVD *In vitro* diagnostic medical device



Solution for microscopical analysis and visualization of fungal elements INSTRUCTIONS FOR USE

REF Product code: KHOG-OT-30 (30 mL)

KHOG-OT-100 (100 mL)

Introduction

BioGnost's Potassium hydroxide, solution for fungi is intended for preparation of sections for microscopical fungi samples analysis. It is one of the simple reagents used as a part of standard procedures for detecting presence of fungal infection in the tested sample, but not for detecting which phylum the fungus is classified in. Most of fungal infections are caused by dermatophyte fungi - they are keratophilic microorganisms that have affinity towards keratin found in skin, fingernails and hair. In order to achieve fast and simple manner of confirming presence of fungi, an adequate sample (scrapings of skin, hair, piece of fingernail, sputum, fungal culture from culture medium) must be placed on the glass slide; after that, potassium hydroxide is added to the sample - it is a solution that can destroy all the structures except fungi. After the sample is reduced to fungi, they can be microscopically easily detectable because they are slightly green in color during refraction of light.

Product description

- **POTASSIUM HYDROXIDE, SOLUTION FOR FUNGI** - Solution for use in microbiology for analysis and visualization of fungi.

Other products that may be used:

- Glass slides for use in microbiology, such as VitroGnost ECONOMY GRADE or one of more than 30 models of BioGnost's glass slides
- Equipment for sampling, such as sterile scalpel, tweezers, or small scissors (for sampling skin, hair or fingernails)
- Microbiology loop and burner (for the sample taken from culture medium) or disposable sterile loop

Sample processing procedure

- Place the sample (scraping of skin, hair, piece of fingernail, sputum, fungal culture) on a clean glass slide
- Add 1 drop of Potassium hydroxide, solution for fungi and stir well in order to evenly mix the solution with the sample
- Let it settle for 5-10 minutes in order to destroy all the structures in the sample (except fungi)
Note: the procedure may be accelerated by cautious heating using the burner
- Slowly put the cover glass on the sample. Avoid formation of air bubbles under the cover glass
- View the sample under microscope using low magnification.
Note: Using a colorless varnish enables isolation of the cover glass and turning the sample into a permanent (control) preparation

Result

Yeast cells, mycelium, hyphae, budding structures (cell reproduction elements) - slightly green

Background - transparent

Note

Microbiology processing procedures are not standardized and they depend on standard operating procedures of individual laboratories and the experience of the personnel conducting the procedure. Depending on personal requests and standard laboratory operating procedures, sample processing and staining can be carried out according to other protocols.

Preparing the sample and diagnostics

Use only appropriate instruments for collecting and preparing the samples. Process the samples with modern technology and mark them clearly. Follow the manufacturer's instructions for use. Because potentially infective samples are used during the preparation of samples, extreme caution is advised during the process, as well as personal safekeeping. In order to avoid mistakes, the staining procedure and diagnostics should only be conducted by authorized and qualified personnel. Use only microscope according to standards of the medical diagnostic laboratory. In order to avoid an erroneous result, a positive and negative check is advised before application.

Safety at work and environmental protection

Handle the product in accordance with safety at work and environmental protection guidelines. Used solutions and out of date solutions should be disposed of as special waste in accordance with national guidelines. Chemicals used in this procedure could pose danger to human health. Tested tissue specimens are potentially infectious. Necessary safety measures for protecting human health should be taken in accordance with good laboratory practice. Act in accordance with signs and warnings notices printed on the product's label, as well as in BioGnost's material safety data sheet which is available on demand.

Storing, stability and expiry date

Keep Potassium hydroxide, solution for fungi in a tightly sealed original packaging at temperature between 15°C and 25°C. Keep in dry places, do not freeze and avoid exposing to direct sunlight. Date of manufacture and expiry date are printed on the product's label.

References

1. Aneja, K. R. (2003): Experiments in Microbiology, Plant Pathology and Biotechnology, 4th ed., New Age International Publishers.
2. Heritage, J., Evans, E.G.V., Kilington, R. A. (1996): Introductory Microbiology, 1st ed., Cambridge University Press.

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	Refer to the supplied documentation		Storage temperature range		Number of tests in package	REF	Product code		European Conformity
	Refer to supplied instructions		Keep away from heat and sunlight		Valid until	LOT	Lot number		Manufacturer
IVD	For <i>in vitro</i> diagnostic use only		Keep in dry place		Caution - fragile				

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