

MYCO-MOUNT RED

IVD In vitro diagnostic medical device



Medium for simultaneous staining fungi red and preparing permanent section INSTRUCTIONS FOR USE

REF Catalog number: MYMR-30 (30 mL)

MYMR-100 (100 mL)

Introduction

Myco-Mount Red medium is used for simultaneous staining fungi red and preparing permanent section. Main ingredient of Myco-Mount Red medium is Lactophenol solution that is one of the most widely used reagents in standard procedures of microscopy analysis of fungi. Myco-Mount Red is used for preparing permanent microscopic sections that have the fungus cytoplasm stained, creating a bright red background. That enables detecting hyphal cell wall and other fungal structures that are stained darker red. The solution consists of several components: phenol (fungicide that causes cellular protein precipitation and inactivation of enzyme systems), lactic acid (acts as a clearing medium), Fuchsin dye (stains hyalins of fungal structures and in turn making them visible) and mixture of resins and glycols soluble in water (enables permanent state of the section). Because of the components' properties, BioGnost's Myco-Mount Red is at the same time a mounting medium and a staining reagent, enabling practical, fast and efficient sample analysis.

Product description

- **MYCO-MOUNT RED** – Medium for use in microbiology for visualization and analysis of fungi samples and permanent section covering.

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

Sample staining procedure

- Add 1-2 drops of Myco-Mount Red medium on a clean glass slide.
- Add a fungus sample (preferably containing spores or structures that contain spores) to the drop of the medium using a sterilized, cold microbiological loop.
- Spread the sample using the loop in order to equally mix it with the medium in a thin layer.
- Slowly put the cover glass on the sample. Avoid formation of air bubbles under the cover glass.
- Wait for 5-10 min.
- View the sample under microscope using low magnification.

Result

Yeast cells, mycelia, hyphae, budding structures (cell reproduction elements) - red
Background (cytoplasm) - bright red

Note

Microbiology staining procedures are not standardized and they depend on standard operating procedures of individual laboratories and the experience of the personnel conducting the staining procedure. Intensity of staining depends on the period of immersion in the dye. 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. 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 Myco-Mount Red solution in a tightly sealed original packaging at temperature of 15 to 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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