

R03465-70

Microscopy

Lactophenol Cotton Blue



In Vitro Diagnostic Medical Device

Intended Use

For fungi staining in microbiology. The lactophenol cotton blue is used for medical cell diagnosis and serves the bacteriological investigation of sample material of human origin. It is a ready to use staining solution that when used together with other *in vitro* diagnostic products from our portfolio makes target structures (e. g. Fungi, by fixing, embedding, staining, counterstaining, mounting) in bacteriological specimen material, for example smears of body fluids, evaluable for diagnostic purposes.

Principle

The lactophenol cotton blue is used for demonstration of fungi in microbiological and diagnostic preparations.

The sample material is stained in one step with lactophenol blue solution. Stained fungi appear blue.

Sample material

Fungal culture

Reagent

Cat. No. R03465-70 Lactophenol Cotton Blue
100 ml

Also required:

Cat. No. 64969 Harleco® Krystalon™ Mounting
Medium 50 mL, 500 mL

Sample preparation

The sampling must be performed by qualified personnel. All samples must be clearly labeled. Suitable instruments must be used for collecting and preparing samples. Follow the manufacturer's instructions for application/use.

Staining Procedure

Direct Slide Method

1. Place a drop of Lactophenol Cotton Blue on a slide.
2. Using an inoculating needle, carefully spread the fungal culture into a thin preparation.
3. Place a coverslip edge on the drop and slowly lower it. Avoid trapping air bubbles under the coverslip. Wait for about 5 minutes.
4. If desired, seal the edges of the coverslip with nail polish or Krystalon™ mounting medium to preserve the mount as a reference slide.
5. Observe under a microscope with low power for screening in low intensity.

Results

Organism	Staining reaction
<i>Aspergillus niger</i>	Delicate blue hyphae and fruiting structures with a pale blue background
<i>Trichophyton mentagrophytes</i>	Delicate blue hyphae and fruiting structures with a pale blue background

Application Notes:

The microscope used should meet the requirements of a medical diagnostic laboratory.

The staining solutions should be filtered before use.

Diagnostics

Diagnoses are to be made only by authorized and trained personnel. Valid nomenclature must be used.

Further tests must be selected and implemented according to recognized methods. Suitable controls should be conducted with each application to avoid an incorrect result.

Storage

15 deg C to 25 deg C

Shelf-life

After first opening of the bottle of Lactophenol Blue Solution the contents can be used up to the stated expiry date when stored at +15 deg C to +25 deg C.

The bottle must always be kept tightly closed.

Additional instructions

For professional use only.

The application must be carried out by qualified personnel only.

National guidelines for work safety and quality assurance must be followed.

Microscopes equipped according to the standards must be used.

Protection against infection

Effective measures must be taken to protect against infection in line with laboratory guidelines.

Instructions for disposal

The package must be disposed of in accordance with the current disposal guidelines. Used solutions and solutions that are past their shelf-life must be disposed of as special waste in accordance with local guidelines.

Auxiliary reagents

Cat. No. 64969	Harleco® Krystalon™ Mounting Medium	50 mL, 500 mL
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Hazard classification

Please observe the hazard classification printed on the label and the information given in the safety data sheet. The safety data sheet is available on the website and on request.

Main components of the Product

Ingredients In 100 ml aqueous solution

Aniline Blue – 100 mg

Phenol – 24 g

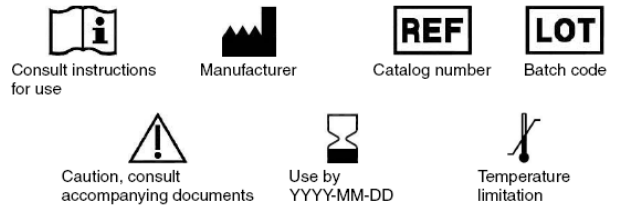
L(+)-Lactic Acid – 24 ml

Glycerol – 46 g

Literature

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