



Technical Data Sheet

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Lactophenol Cotton Blue Stain Kit

RDM-K-LPCB-01

Principle

Lactophenol cotton blue is a mounting fluid used to visualize fungal structure. Fungus is a eukaryotic organism, and the cell wall of fungus is made up of chitin. Lactophenol cotton blue contains phenol, which acts as a disinfectant and kills live organisms. The lytic cellular enzyme deactivates due to the high concentration of the phenol; thus, the cells do not lyse. Lactic acid preserves the structure of the fungus and clears the tissues. The cotton blue, which stains the fungus and imparts blue coloration to the fungal spores and hyphae for better identification.

Use: Recommended for mounting and staining of fungi.

Contents*

Ingredients

Phenol	20.00 gm
Cotton blue	0.05 gm
Lactic acid	20.00 ml
Glycerol	40.00 ml
Distilled water	20.00 ml

* Formula adjusted for optimum performance and parameters

Directions:

1. Add 1 drop of lactophenol cotton blue stain in the center of clean microscope slide.
2. By using a sterile nichrome inoculating wire loop, carefully take a fungal culture or specimen sample in the drop of lactophenol cotton blue stain and tease gently.
3. Place the cover slip and press gently to make a thin mount.
4. Examine the prepared slide under low power (x100).

Specimens' types analyzed

Clinical and non-clinical specimen samples.

Precautions to be taken

1. Reagents must be added in the order and the amounts specified or a weak-positive or false-negative reaction may occur.
2. Clinical samples and microbial cultures should be considered as pathogenic biohazard and handled accordingly. Good laboratory practices and hazard precautions must be observed at all times.
3. The test is an aid to identification and is not a confirmatory test.
4. Do not use damaged or leaking kits. Avoid contact of reagents with skin and eyes.

Performance and Evaluation

The expected performance of the stain kit is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Physical Parameters:

Physical state - Liquid.

Lactophenol cotton blue – Blue, clear solution.

Different Microbial Response

Organism	ATCC	Cell morphology
Aspergillus brasiliensis	16404	Blue hyphae with pale blue background

Storage and Shelf Life: Keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Leber, Amy L., editor in chief. (2016). Clinical microbiology procedures handbook (Fourth edition). Washington, DC: ASM Press 1752 N St., N.W., [2016]
2. Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
4. Jorgensen., et al. Manual of Clinical Microbiology, American Society for Microbiology, Washington, D.C

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