



Product Specification

cdhfinechemical.com

LACTOPHENOL (COTTON BLUE) SOLUTION FOR MICROSCOPY

PRODUCT CODE 859260
SYNONYMS Lactophenol Aniline Blue Solution.

Intended Use

Lactophenol Cotton Blue is used for staining solution for fungi.

Principle And Interpretation

Fungus are eukaryotic organism and they are classified into two main groups that is yeast and molds. Its cell wall is made up of chitin. Fungal cells have both macroscopic as well as microscopic structure. Lactophenol along with Cotton Blue reagent is used for staining as well as for wet mounting of fungi. Wet mount preparation is the most widely used method of staining and observing fungi and is simple to prepare. The preparation has three components: Lactic acid preserves the fungal structure and clears the tissue while phenol acts as a disinfectant and cotton blue imparts blue colouration to the fungal spores and hyphae.

PARAMETER	LIMIT
Description	Blue coloured solution.
Solubility	Soluble in water.
Wt. per ml at 20°C	About 1.16 g
Suitability for microscopy	Passes test.

Directions

1. Place a drop of Lactophenol Cotton Blue reagent on a clean and dry slide. The stain imparts a blue colouration on hyphae.
2. By using a nichrome inoculating wire, carefully tease the fungal culture into a thin preparation.
3. Place a coverslip on the preparation. Wait for about 5 minutes.
4. Observe first under microscope with low power for screening in low intensity.

Results

Fungal spores and hyphae : pale to dark blue.

Note(s) : Assay (if applicable) method mentioned.

DANGER

Hazard statements: Toxic if swallowed. Suspected of damaging fertility. May be corrosive to metals. Causes severe skin burns and eye damage

Precautionary statements

Prevention: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Obtain special instructions before use. Wear protective gloves/clothing and eye/face protection. Use personal protective equipment as required. Do not breathe dust or mist. Do not handle until all safety precautions have been read and understood.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Absorb spillage to prevent material damage. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower. If exposed or concerned: Get medical attention advice. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Specific treatment: refer to Label or MSDS.

IMDG Code :--
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Disposal: The chemical should be mixed with combustible solvent and burnt in a chemical incinerator equipped with burner and scrubber.

Hazard Pictogram(s) :



Replace date 19-Dec-2023