

61335 Lactophenol Blue Solution (Lactophenol Cotton Blue Solution, Lactophenol Aniline Blue Solution)

The identification of molds is based on the shape, method of production, and arrangement of spores (conidial ontogeny).

Lactophenol Blue Solution is a mounting medium and staining agent used in the preparation of slides for microscopic examination of fungi. Fungal elements are stained intensely blue.

Composition:

Ingredients	In 100 ml aqueous solution
Methyl Blue (Cotton Blue, Aniline Blue)	50 mg
Phenol	25 g
L(+)-Lactic Acid	25 g
Glycerol	50 g

Directions:

1. Place a drop of Lactophenol Blue Solution 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 Permount® to preserve the mount as a reference slide.
5. Observe under a microscope with low power for screening in low intensity.

A considerable discoloration of the original material can be obtained by treating it with KOH before staining.

Organisms (ATCC)	Reaction
<i>Aspergillus niger</i> (16404)	Delicate blue hyphae and fruiting structures with a pale blue background.
<i>Trichophyton mentagrophytes</i> (9533)	Delicate blue hyphae and fruiting structures with a pale blue background.



References

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