3C-257

Lactophenol water blue
In-vitro diagnostic agent

Description

The product 3C-257 is a ready-to-use solution for professional users in histology and cytology. The product comes in 3 different pack sizes: 3C-257.00100 (100ml bottle), 3C- 257.00250 (250ml bottle), and 3C-257.01000 (1l bottle).

Main components

Aniline blue (C.I.42780)	1g/L
Lactic acid (CAS 50-21-5)	20%
Phenol (CAS 108-95-2)	20%

Purpose

The dye "lactophenol water blue" is used for cell diagnostics for the examination of histological samples (e.g. histological sections). It is a ready-to-use solution which is used for the staining of fungi.

Sample material and sample preparation

Sampling may only be carried out by qualified personnel. All samples must be processed with state-of-the-art technology. All samples must be clearly labelled.

Sample material: Air-dried, heat-fixed and Sputofluol®-pretreated smears of microbiological material such as sputum, smears of fine needle aspiration biopsies, rinsing fluids, imprints, effusions, pus, exudates, liquid and solid cultures.

Test principle

The lactophenol blue solution is used to visualise fungi in microbiological specimens. Fungal elements appear blue after colouring. By pretreating the specimens with Sputofluol®, the fungi and bacteria are dissolved from the surrounding, tough sputum and cell material.

C-257 staining

Pre-treatment of culture material

When using culture material as a sample, no pre-treatment is necessary and the staining can be done

immediately. Pre-treatment of smears

Smears should be pre-treated with Sputofluol®. To prepare about 100 ml of 15% Sputofluol® solution, 15 ml Sputofluol® and 85 ml distilled water are needed.

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Then mix 1 part sample (at least 2 ml) with 3 parts Sputofluol® solution by vigorous shaking and then centrifuge at 3000–4800 rpm. The supernatant is poured off and the sediment is spread on slides. The samples are air dried.

Staining on the slide is done by direct addition of 1–2 drops of lactophenol-water blue solution. The sample is then covered with a cover glass and after 2 minutes of staining, microscopically examined.

Result

Fungal elements	blue

Precautionary measures

When removing the product, care must be taken to avoid contamination of the storage vessel. Once the solution has been removed, it must not be returned to the canister. If turbidity or solids appear, discard the product. The product is intended for single use and must not be reused.

Storage and shelf life

Store the unopened containers in a dry place at 15 to 25 °C, avoiding direct sunlight.
The shelf life is 2 years. See also the best-before date (BBD) on the label. Once the containers have been opened, the shelf life corresponds to the best-before date, as long as the storage conditions are observed and the solution is handled properly.

Safety notice

If any serious incidents occur in connection with the product, please report them to the manufacturer and the national authority.

Literature

Romeis, Mikroskopische Technik, Editors: Maria Mulisch, Ulrich Welsch, 2010, Springer Spektrum, 18th edition