1A-639

Field`s Stain B

In Vitro Diagnostic

IVD

Description

The product 1A-640 is a dry dye for preparing a dye solution for professional use in histology and cytology. The product is supplied in 6 different pack sizes: 1A-639.00010 (100ml bottle), 1A-639.00025 (100ml bottle), 1A-639.00100 (250ml bottle), 1A-639.01000 (3,5L bucket), 1A-639. 02500 (3,5L bucket) and 1A-639.05000 (6,4L drum).

Main components

Methylene blue (C.I.52015)	6,4%
Azur I	3,9%
Disodium hydrogen phosphate*2H_2O (CAS 10028-24-7)	39,8%
Potassium dihydrogen phosphate (CAS 7778-77-0)	49,8%

Purpose

The dye is used for cell diagnostics and is used for staining tissue samples. This is the dye “Fields stain A”, which, together with “Fields Stain B” is used for the rapid detection of Plasmodium species in the diagnosis of malaria in prepared blood smears of human origin.

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: Blood smears after air drying.

Test principle

The dye „Field’s stain A“ is dissolved in water at 2.5%.

After staining, malaria parasites can be easily detected under the microscope in the blood smear or in the thick blood droplet. With thin blood films, the red blood cells are fixed and the infected cells can be identified by their morphology. In the thick blood films, the parasites appear more concentrated than in the blood films, which is why the examination of a thick blood film is recommended.

Malaria parasites show deep red chromatin and light blue cytoplasm after staining with the solutions of the dyes “Field’s Stain A” and “Field’s Stain B”. In Leukocytes, the nuclei stain blue and the cytoplasm light blue. Eosinophils appear large and orange. Neutrophils are small and turn light purple. White cells, platelets and malaria pigment can also be seen on a thick film, with the malaria pigment turning brown-black.

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Amtsgericht Münster
HRA 1926

Komplementärin:
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Verwaltungsgesellschaft mbH
Amtsgericht Münster
HRB 692

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Staining

Before staining, smears must be dried in air. They are not fixed in methanol. The slide is dipped in the solution with “Field’s A stain” and then washed in distilled water. The samples are then immersed in the solution with “Field’s B stain” and the excess colour is removed by rinsing them in distilled water. Before examination under the microscope, the samples are air dried.
To ensure the differentiability of the target structures, suitable control specimens should be kept along with the staining.
The usual staining protocols known from literature must be used.
Staining may only be carried out by qualified personnel.

Result

Malaria parasites	Deep red chromatin, light blue cytoplasm
Malaria pigmente on a thick film	brown-black

Precautions

When withdrawing the product, care must be taken to avoid contaminating the storage container. Once the solution has been removed, it must not be returned to the canister. If there is any cloudiness or sediment present, the product must be discarded. 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 5 years. See also the best-before date (BBD) on the label. After the containers have been opened, the shelf life corresponds to the best-before date, provided that the storage conditions are observed and the solution is handled properly.

Safety notice

If any serious incidents occur related to 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

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