



## 1A-322

Eosin methylene blue, Leishman

## 1A-324

Eosin methylene blue, Wright

In-vitro diagnostic agent

### Description

This product is a dye for use in cytology. It is a dry dye for preparing a staining solution for professional users.

The product comes in 4 different pack sizes: 1A-322.00010 (10ml bottle), 1A-322.00025 (25ml bottle), 1A-322.00100 (100ml bottle) and 1A-322.01000 (1l bottle)

The product comes in 6 different pack sizes: 1A-324.00010 (10ml bottle), 1A-324.00025 (25ml bottle), 1A-324.00100 (100ml bottle), 1A-324.00500 (500ml bottle), 1A-324.01000 (1l bottle) and 1A-324.25000 (25l drum)

### Main components

Methylene blue (C.I. 52015) + azure	48%
eosin (C.I. 45380)	52%

### Purpose

Eosin methylene blue is used for the examination of haematological-cytological sample material such as whole blood and bone marrow smears. It is a dry dye for preparing a staining solution for professional users. It can be used for overview staining of cell and tissue components.

### 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: fresh, native blood or bone marrow smears, as well as clinical material from cytology such as urine sediment, sputum, smears from fine needle aspiration biopsies, rinsing fluids, imprints.

### Test principle

The staining of the cell nuclei is based on the molecular interaction between the dye eosin and a complex of azure-B dye and DNA.

### Staining

Leishman's eosin methylene blue is prepared by adding methanol.

The slide with the air-dried smear is treated directly with the staining solution. After rinsing it in a buffer solution, allow it to air dry.

The samples can be covered with a synthetic covering medium for subsequent microscopy.



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

Nuclei:	(red) purple
Cytoplasm of lymphocytes:	blue
Cytoplasm of monocytes:	grey-blue
Neutrophil granules:	light purple
Eosinophil granules:	brick-red
Basophil granules:	dark purple
Platelets:	purple
Erythrocytes:	reddish to brownish

### 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