

GIEMSA STAIN

Principle

Used in hematology, the Giemsa Stain allows the differentiation of the different blood cells. Giemsa's solution colors and reveals erythrocytes, basophils, eosinophils, polymorphonuclear cells, lymphocytes, platelets and the chromatin of the nuclei.

Material

Blood

Reagents

Code	Description
251338	Azur-Eosin-Methylene Blue solution according to Giemsa (slow) for clinical diagnosis (*)
141091	Methanol (USP-NF, BP, Ph. Eur.) pure, pharma grade
251002	Immersion Oil for clinical diagnosis (*)
252164	Buffer Solution pH 7.2 for clinical diagnosis

Procedure

1. Prepare a fine line of blood in a clean slide, let it dry (1-2 hours approximately).
2. Cover the preparation with methanol for 3 minutes.
3. Allow to drain and air dry.
4. At the beginning of the second phase of the staining, take 0.2 ml Azur-Eosin-Blue from methylene solution according to Giemsa (slow) and dilute in 2 ml buffer pH 7.2. Homogenize.
5. Cover the preparation with this diluted solution for 25 minutes.
6. Wash for two minutes with pH 7.2 buffer.
7. Allow the preparation to dry in the upright position.
8. Observe the preparation through immersion objective.

Results

Erythrocytes	Pink-salmon
Platelets	Violet

Type of Leucocyte	Nuclei	Cytoplasm	Granulations
Neutrophil	Violet to reddish	----	Violet
Eosinophil	Violet to reddish	----	Red brick to reddish brown
Basophil	Violet to reddish	----	Dark violet to black
Monocyte	Violet to reddish	Blue-gray	----
Lymphocyte	Violet	Blue	

Technical note

The microscope used should correspond to the requirements of a clinical diagnostic laboratory.

If an automatic staining device is used, the user's instructions for use of the manufacturer device and software must be taken into account.

Sample preparation

All samples should be treated according to the conditions of the technology.

All samples must be unambiguously labeled.

Diagnosis

Diagnostics should be established only by authorized and qualified persons. Each application should involve appropriate controls to rule out erroneous results.

Storage

The staining solution should be stored at room temperature.

Expiration

The product stored at room temperature and in a tightly closed container is usable up to the expiration date indicated on the package.

Notes on use

In order to avoid errors, the staining must be carried out by specialized personnel. For professional use only. The national directives on safety at work and quality assurance must be complied with.

Advise on disposal of waste

Solutions used and expired solutions should be disposed of as hazardous waste and local waste disposal regulations must be observed. If further questions are asked about disposal, they may be processed through E-Mail: info.es@itwreagents.com. Inside the EU are valid the requirements based on Council Directive 67/548 / EEC on the approximation of the laws, regulations and laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances in the relevant version.

Classification of hazardous substances

Observe the classification of dangerous substances on the label and the information on the safety data sheet.

Manufacturer

Panreac Química S.L.U.

an ITW Company

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(*) Sanitary product for In Vitro Diagnostics

