



PRODUCT SPECIFICATION SHEET

Fields stain A (SI 012)

Fields stain B (SI 013)

Use

The field stain is different from other methods and is rapid and convenient. With some modifications it can be used for the rapid screening of blood smears.

Principle

Methylene blue (in field A) and eosin (in field B) aid in differentiation of WBCs. These basic and acidic dyes induce multiple colours when applied to cells. Methanol acts as fixative and also as a solvent. The fixative does not allow any further change in the cells and makes them adhere to the glass slide. The basic component of white cells (i.e. cytoplasm) is stained by acidic dye and they are described as eosinophilic or acidophilic. The acidic components (e.g. nucleus with nucleic acid) take blue to purple shades by the basic dye and they are called basophilic. The neutral components of the cell are stained by both the dyes.

Storage And Stability

1. Store the bottle in dry, cool and dark place.
2. The shelf life of reagents is as per the expiry date mentioned on the reagent bottle labels.

Procedure

Fixing and staining procedure for blood smears

1. Freshly prepare and rapidly air dry the blood film.
2. Fix the blood smears with methanol for 2 to 3 minutes before staining.
3. Dip the fixed smear in **Field's Stain B** for 15 seconds.
4. Wash in tap water.
5. Dip the slide in **Field's Stain A** for 15 seconds.
6. Wash in tap water.
7. Drain the water. Place it vertically against a rack.
8. Examine the dry smear under oil immersion objective.

Result

Appearance of cell & cell components

Blood cells

Nuclei of small lymphocytesDark purple
Nuclei of Neutrophils.....Dark purple
Granules of Eosinophils.....Red
Cytoplasm of mononuclear leucocytes....Blue-grey
Reticulum of reticulocytes.....Blue-grey stippling in background
NucleusRed-mauve
Kinetoplast.....Dark red
Cytoplasm.....Pale mauve
Flagellum..... Pale mauve



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Packaging

Product Name : **Field Stain A and Field stain B**

Product Code : **SI012 & SI013**

Available Pack sizes : **125ml**

Further Information

For further information please contact your local MICROMASTER Representative.



MICROMASTER LABORATORIES PRIVATE LIMITED

Unit 38/39, Kalpataru Industrial Estate,

Off G.B. Road, Near 'R-Mall' , Thane (W) - 400607. M.S. INDIA.

Ph: +91-9320126789/9833630009/9819991103

Email: sales@micromasterlab.com

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