ARENA
BioScien

Block 5, Street 9 inside The Ismailia free zone. Ismailia- Egypt
Post Code-41511
Tel.-Fax: +202 21813500/ +202 21813600
Mob.: +2 0121550942/ +2 01119225860
E-mail: sales@arenabioscientific.com
Website: www.arenabioscien.com

Rapid Stain

A hematological, differential, non-vital staining technique.

REF: BS.1/SR03.100.0300 3 X 100 ml

CLINICAL SIGNIFICANCE

Fast staining in haematology is used for the diagnosis and characterisation of leukocytes. It allows easy and fast staining. The kit contains solutions for the fast staining of blood smears through successive immersion in each of them. Results of a quality equal to classic staining methods (May Grünwald-Giemsa or Pappenheim) are obtained in only a few seconds.

METHOD PRINCIPLE

In Rapid staining, biological samples of blood or bone marrow, usually prepared as smears, are used. The first step is to fix the cell structures in methanol by immersing the sample in this fixative, several times during a certain short period of time. This allows the structures of the different cellular components to remain unaltered. Then the sample is immersed in a second solution, eosin, proceeding in the same way. Finally, it is immersed in a third solution, blue, doing the same as in the previous two. After washing with pH 7.2 solution; the preparation can be observed by optical microscopy thus revealing the different blood cells (white and red cells). The interpretation is identical to that of the classical stains (May Grünwald-Giemsa).

REAGENT COMPOSITION

Item	Formula per liter of medium
Solution 1	Methanol (Fixative Solution)
Solution 2	Eosin Yellow (Acidic Dye)
Solution 3	Methylene Blue (Basic Dye)

PRECAUTIONS AND WARNINGS

Media to be handled by entitled and professionally educated person. Do not ingest or inhale.

Good Laboratories practices using appropriate precautions should be followed in:

- Wearing personnel protective equipment (overall, gloves, glasses,).
- Do not pipette by mouth.
- In case of contact with eyes or skin; rinse immediately with plenty of soap and water. In case of severe injuries; seek medical advice immediately.
- Respect country requirement for waste disposal.

S56: dispose of this material and its container at hazardous or special waste collection point.
S57: use appropriate container to avoid environmental Contamination.
S61: avoid release in environment.
For further information, refer to Rapid Stain material safety data sheet.

STORAGE AND STABILITY

BioScien Rapid Stain are stable until expiration date stated on label when properly stored 10-25°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle.

PROCEDURE

1. Prepare a very fine blood smear on a clean slide and degrease it with alcohol.
2. Allow to dry in the air (approximately 2 hours)
3. Immerse the blood smear sample in Fastener (Solution 1) 5 times for 1 second each time or one minute.
4. Allow to drain.
5. Immerse the blood smear sample in Eosin for rapid staining (Solution 2) 5 times for 1 second or 30 seconds.
6. Allow to drain.
7. Immerse the blood smear sample in Rapid Staining Blue (Solution 3) 5 times for 1 second each time or 30 seconds.
8. Allow to drain.
9. Rinse the smear with pH 7.2 buffer.
10. Dry in the air and observe under the microscope.

SPECIMEN COLLECTION AND PRESERVATION

Clinical samples: Blood

PERFORMANCE CHARACTERISTICS

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

Cell	Nuclei	Cytoplasm	Granules
Neutrophil	Blue-Violet	-	Violet
Eosinophil	Blue-Violet	-	brick red to brown violet
Basophil	Blue-Violet	-	Dark violet to black
Monocyte	Blue-Violet	Pink-Grey	
Lymphocyte	Blue-Violet	Blue	

QUALITY CONTROL

To ensure adequate quality control, it is recommended that positive and negative control included in each run. If control values are found outside the defined range, check the system performance. If control still out of range please contact ***BioScien*** technical support.

REFERENCES

1. Green, S.R. and Gray, P.P. 1950, Wallerstein Lab. Communication 13,357.

SYMBOLS IN PRODUCT LABELLING	
IVD For in-vitro diagnostic use	Number of <n> test in the pack
LOT Batch Code/Lot number	Caution
REF Catalogue Number	Do not use if package is damaged
Temperature Limitation	Consult Instruction for use
Expiration Date	
Manufactured by	