

Romanowsky type stain reagent for the differentiation of cell types in blood smears. This product has been modified to improve Health & Safety by modifying the traditional formulation using less harmful components. The modified formulation also enhances the stability of the stain when diluted with water or buffer (in use) therefore promoting uniform staining and extending the usable staining time of the diluted stain solution.

**Specification:**

Contains Romanowsky stain (Giemsa type) compound in a DMSO-Glycerol-Methanol- solvent system containing solubility improvers and stabilisers. Ready to use.

**General Method ( Coplin jar method, thin blood smears) :**

Fix air dried thin blood smears in absolute Methanol for 5-15 minutes before staining.

Using GCC B010 ( or other) phosphate buffer dilute 5ml of stain with 45 ml of phosphate buffer ( pH 6.80) in a Coplin Jar immediately before use.

1 – After fixation, transfer slides immediately to freshly prepared stain ( above) in the Coplin jar. Agitate slide and leave to stain for 15-20 minutes.

2 – Remove from Coplin jar, rinse slide for 1-3 minutes in pH 6.80 buffer until smear is pink or simply allow slide to rest in clean pH6.80 buffer for 2-5 minutes ( or longer depending on laboratory requirements) to differentiate ( check periodically on microscope to determine optimum rinse/differentiation time).

4 – Blot dry and air dry.

5 – Examine under oil immersion.

**Results:**

	NUCLEUS	CYTOPLASM	GRANULES
Erythrocytes		Pink	
Platelets		Pink-purple	Violet-purple

**POLYMORPHONUCLEARS**

Neutrophils	Purple	Pink-gray	Red-lilac
Eosinophils	Blue-purple	Pink-gray	Red-orange
Basophils	Purple-blue		Dark purple-black
Bands	Purple	Pink-gray	Violet
Lymphocytes	Purple	Blue purple	

**Storage:**

Store reagent at cool room temperature in darkened cupboard tightly closed.

**Health & Safety:**

Contains Methanol – TOXIC by inhalation, ingestion and skin contact. Methanol is Flammable- Keep away from sources of ignition. Contains organic dyestuffs ( acid & basic dyes) in a harmless organic solvent system. Contains methylene blue < 0.5% which if taken into the blood stream in sufficiently large quantities it will de-oxygenate the blood., therefore in significant quantities it can be TOXIC, however, in normal use the risk of ingesting large amounts is small. Do not consume. Wash with soap and water in contact with skin. If in contact with eyes bathe eyes with eye-bath for 5 minutes. Seek medical attention if soreness persists. Wear suitable eye, face and body protection when using.

**Waste disposal :**

Clean the spillage area with detergent & water and run the waste to sewer drains.

Unused reagent can be disposed of by disposal to public sewer dilution greatly with tapwater. If quantities larger than 250ml are involved the waste should be collected in a suitable container for disposal by a licensed waste disposal contractor.

Packaging should be rinsed with water and recycled as polyethylene.

**Unsatisfactory performance**

As part of our duty to monitor product performance and our policy of continual improvement. Please report to us any unsatisfactory performance you may experience with this product. If any reagent degrades before expiry of shelf life we will replace that reagent free of charge.

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