

HEMA-STAR**General & Usage information**

Rapid Romanowsky type demonstration of blood cells in thin smears.

Specification

Romanowsky type blood stain in a specially formulated buffer reagent to enhance stain picture performance and greatly reduce traditional staining times. 250ml reagent supplied per kit.

Storage & Stability.

Although the reagents contains stabilising components it is subject to air oxidation promoted by sunlight, therefore keep tightly closed in a dark cupboard when not in use.

Additional reagents required - Methanol for fixation.

Preliminary.

We recommend that the laboratory determines its own procedure for the particular purpose for which this stain is intended. The procedures below can be modified by increasing/ decreasing the staining and rinse times and by using phosphate buffered diluents and rinses at varying pH's to enhance / alter eosinophilic or basophilic staining.

Rapid Stain Procedure.

The following method is provided for guidance only. The stain and rinse times can be altered to achieve the desired stain picture. In general it provides a reliable rapid procedure for achieving a Geimsa type stain on thin smears in 2-3 minutes.

The pH of the rinse solutions may also affect results. Rinses should be essentially neutral pH 6.80 – 7.00. In general a phosphate buffered rinse at pH 6.80 (Cat B010) provides reliable results.

Single Slide Method.

Thin blood smears should be **pre-fixed** in absolute methanol for 30 seconds minimum. Smears maybe left in fixative for longer periods without adversely affecting results.

1 - Remove slide from fixative, blot away excess methanol.

2 - Place slide smear-up in staining dish, cover smear with Hemastar 0.5-1.0ml. Allow to stand 15 seconds.

3 - Add 1.0 – 2.0 ml deionised water to stain dropwise evenly across the slide. The stain and diluent will mix evenly together without assistance. Allow to stain for 60 seconds.

4 - Rinse slide with agitation in clean pH 6.80 buffer for 5 seconds.

5 - Place slide at rest in fresh pH 6.80 buffer to differentiate for 1 minute. On completion the slide should be a pale pink-brown colour. Dry & examine.

Multiple Slide Method.

Prefix the smears as above. Drain excess fixative from slides for a few seconds before immersion in stain.

1 - Dilute the stain as follows: 5ml Hemastar to 50ml with deionised water (scale up volume as required).

Phosphate buffered water maybe used as diluent if a specific pH is required. Diluted stain can be used throughout the day or until the stain picture obtained begins to deteriorate.

2 – After fixation place slides in diluted stain for 5 minutes.

3 – Rinse with agitation in pH 6.80 rinse buffer for 10-15 seconds.

4 – Place slides at rest in fresh pH 6.80 rinse buffer for 40-60 seconds. Dry and examine.

Material safety data section

Contains Methyl alcohol, which is Highly Flammable and Toxic by inhalation and ingestion. Long term exposure may cause blindness.. Do not consume. Avoid sources of ignition when using. Long term exposure may cause blindness. If ingested seek immediate medical attention on what treatment is appropriate. 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. Use in a suitably ventilated area or under a ventilated hood.. This product is for "In-vitro diagnostic use only ". Standard precautions for handling laboratory reagents should be followed when using this product. R: 11-22-23-25-40 S: 7-16-24-25-26-28-45

Waste disposal

HEMASTAR is flammable & toxic. It is volatile in air so spillage vapours may present an explosion hazard in small spaces if mixed with air. Mop up immediately with suitable absorbent granules or paper and remove to outside area for proper disposal (can be evaporated to atmosphere). 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. Packaging should be rinsed with water and recycled as polyethylene, paper & cardboard.

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. GCC Diagnostics guarantees the quality of this product, the user should however determine the suitability of this product for their intended use.

If you wish to report any findings to us or if you require help or further information on the use of this product please contact us.

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