CLIN-TECH
LIMITED

GIEMSA

Stain

IVD

Catalogue number
61025X

CE

INTENDED USE

The Clin-Tech Geimsa Stain is intended to identify haematopoietic cells in tissue samples. Routinely-processed (paraffin-embedded) samples may be used. Giemsa is a classical Romanowsky-type stain and may be used in conjunction with May-Grunwald's stain (61024x).

PRODUCT CODES

610255	610251	610250	610259
500mL	1 Litre	2.5 Litre	5 Litre

CONTENTS

Giemsa Stain contains Giemsa's powder, dissolved in 50:50 Methanol: Glycerine.

STORAGE AND STABILITY

Store at room temperature (15-25°C) in a well ventilated flammable store keeping bottle tightly closed.

Do not use reagents beyond the expiry date printed on the label.

AS REQUIRED FOR STAINING

Sorensen's Buffer pH 6.8	Cat No. 610210
Methanol	Cat. No. 61088x
Acetic Acid 0.5%	

PROTOCOL

Preparation

1) Make blood films in the normal way and air dry immediately. Rehydrate paraffin sections.

2) Prepare working strength Sorensen's pH 6.8 buffer solution.

3) Rinse slides in w/s Sorensen's buffer.

4) Prepare working-strength Giemsa by diluting 1/5 – 1/10 in w/s Sorensen's buffer.

5) Immerse slides in w/s Giemsa overnight, at 37ºC. Shorter staining times may be achieved at higher temperatures (60ºC), but with some loss of red staining.

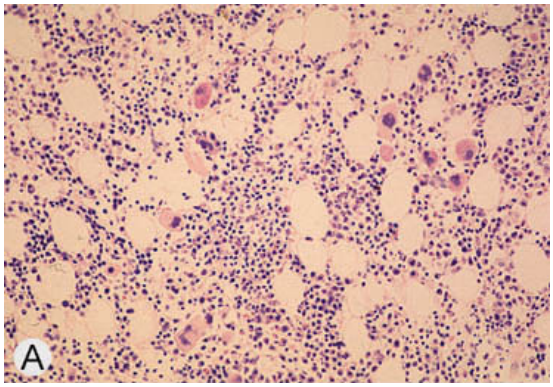
6) Rinse in distilled water.

7) Differentiate in 0.5% acetic acid for approx. 30 secs. This removes only the blue component, therefore comparatively enhancing the red component.

8) Dehydrate the slide with methanol, and mount.

Results

Erythrocytes	Bright Pink
Basophils	Purple
Lymphocytes	Blue
Mast-cell Granules	Purple
Nuclei	Dark Blue – Violet
Cytoplasm	varying Light Blue
Micro-organisms, Fungi, Bacteria	Purple-Blue
Collagen, Muscle, Bone	Pale Pink
Bile pigments	Green
Starch granules, Cellulose	Sky Blue



PROCEDURAL NOTES

The results obtained are dependent on

- the method of specimen collection,
- the preparation of the film
- the drying
- the fixation
- the final staining protocol

Excessive staining can occur due to thick smears.

The number of rinses or their timings (step 5) can be varied to suit individual preferences.

SAFETY PRECAUTIONS

This product contains methanol which is toxic and highly flammable, and therefore suitable precautions as described on the label should be taken.

REFERENCES

1. Churukian CJ. Manual of the Special Stains Laboratory, Department of Pathology and Laboratory Medicine, University of Rochester Medical Center, Rochester, New York, 1997

2. Luna LG. Manual of Histologic Staining Methods of the AFIP, 3rd edition, McGraw-Hill Book Company, New York, New York, 1968

Clin-Tech Ltd
Unit G Perram Works
Merrow Lane
Guildford
GU4 7BN
United Kingdom

Telephone:
+44 (0) 1483 301902
Fax:
+44 (0) 1483 301907
Email:
info@clin-tech.co.uk

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