



Instructions For Use

SMS-IFU

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Mucicarmine Stain Kit

(Modified Southgate's)

Description and Principle

Mucicarmine Stain Kit (Modified Southgate's) is intended for use in the histological visualization of acid mucopolysaccharides in tissue sections. This product is useful in distinguishing mucin negative undifferentiated squamous cell lesions from mucin positive adenocarcinomas. In addition, this product will stain the mucopolysaccharide capsule of *Cryptococcus neoformans*.

Carmin dye is a natural occurring dye that combines with an aluminum mordant to form a positively charged chelation complex. This cationic complex binds to anionic groups of acid mucopolysaccharides. Nuclei are stained with a rapid and progressive Mayer hematoxylin solution. Tartrazine provides a contrasting yellow counterstain.

Expected Results

Mucin:	Pink/Red
Capsule of <i>Cryptococcus</i> :	Red
Nuclei:	Blue to Green
Other tissue components:	Yellow

Kit Contents

1. Hematoxylin, Mayer's
2. Bluing Reagent
3. Mucicarmine Solution
4. Tartrazine Solution

Storage

- 18-25°C
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- 2-8°C
- 18-25°C

Suggested Controls *(not provided)*

Colon, Intestine, Bronchi Epithelial cells.

Uses/Limitations

For In-Vitro Diagnostic use only.

Do not use if reagents become cloudy or precipitate

Do not use past expiration date.

Use caution when handling reagents.

Non-Sterile

Intended for FFPE sections cut at 5-10µm.

This procedure has not been optimized for frozen sections.

Frozen sections may require protocol modification.

Storage

Mixed storage conditions. Store according to individual label instructions.

Safety and Precautions

Please see current Safety Data Sheets (SDS) for this product and components GHS classification, pictograms, and full hazard/precautionary statements.

Procedure:

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Stain slide in Hematoxylin for 2-3 minutes.
3. Rinse for 2 minutes in running tap water.
4. Dip slide in Bluing Reagent for 30 seconds.
5. Rinse slide in distilled water.



Epithelial mucins in Human GI tract demonstrated with Mucicarmine Stain Kit

6. Stain slide in Mucicarmine Solution for 30 minutes.
7. Rinse quickly in tap water followed by a quick rinse in distilled water.
8. Stain slide in Tartrazine Solution for 1 minute.
9. Rinse slide 1 time in absolute alcohol.
10. Dehydrate slide quickly in 3 changes of absolute alcohol.
11. Clear in 2 changes of xylene or xylene substitute, and mount in synthetic resin.

References

1. Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2nd Edition. Battelle Press, Columbus, OH. Pages 172-173.



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