

# Mucicarmine Stain Kit

## (Modified Southgate's)

**Description:** 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*.

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

**Uses/Limitations:** For In-Vitro Diagnostic use only.  
Histological applications.  
Do not use past expiration date.  
Use caution when handling these reagents.

**Control Tissue:** Colon  
Intestine  
Bronchi Epithelial cells

### Availability/Contents:


#### Kit Contents

Hematoxylin, Mayer's (125 ml)  
Bluing Reagent (125ml)  
Mucicarmine Solution (125 ml)  
Tartrazine Solution (125 ml)

#### Storage Conditions

Room Temperature  
Room Temperature  
2-8° Centigrade  
Room Temperature

**Precautions:** Keep away from open flame.  
Avoid contact with skin and eyes.  
Harmful if swallowed.  
Follow all Federal, State, and local regulations regarding disposal.  
Use in chemical fume hood whenever possible.

Storage: 2° C  25° C

**Mixed Storage Conditions.**  
**Separate Contents.**


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### Procedure (Standard):

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. If sections are Zenker-fixed, remove mercuric chloride crystals using iodine and clear with sodium thiosulfate. Rinse in running tap water.
3. Stain slide in Hematoxylin for 2-3 minutes.
4. Rinse for 2 minutes in running tap water.
5. Dip slide in Bluing Reagent for 30 seconds.
6. Rinse slide in distilled water.
7. Stain slide in Mucicarmine Solution for 10 minutes.
8. Rinse quickly in tap water followed by a quick rinse in distilled water.
9. Stain slide in Tartrazine Solution for 1 minute.
10. Rinse quickly in tap water followed by a quick rinse in distilled water.
11. Dehydrate through graded alcohols.
12. Clear, and mount in synthetic resin.

### References:

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

Storage: 2° C  25° C

**Mixed Storage Conditions.**  
**Separate Contents.**