



# 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
Other tissue components:	Yellow


**Uses/Limitations:** Not to be taken internally.  
For In-Vitro Diagnostic use only.  
Histological applications.  
Do not use if reagents become cloudy.  
Do not use past expiration date.  
Use caution when handling reagents.  
Non-Sterile.



### Kit Contents:

<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
Hematoxylin, Mayer's	125 ml	18-25°C
Bluing Reagent	125 ml	18-25°C
Mucicarmine Solution	125 ml	2-8°C
Tartrazine Solution	125 ml	18-25°C

**Precautions:** Avoid contact with skin and eyes.  
Harmful if swallowed.  
Follow all Federal, State, and local regulations regarding disposal.

Storage: 2° C  25° C

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




**Procedure:**

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. Prepare working Mucicarmine Solution by mixing 1 part Mucicarmine with 2 parts distilled water. Mixed solution may be used for 30 days if stored at 2-8°C.
8. Stain slide in working Mucicarmine Solution for 30-60 minutes.
9. Rinse quickly in tap water followed by a quick rinse in distilled water.
10. Stain slide in Tartrazine Solution for 1 minute.
11. Rinse slide 1 time in absolute alcohol.
12. Dehydrate slide quickly in 3 changes of absolute alcohol.
13. 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, 2<sup>nd</sup> Edition. Battelle Press, Columbus, OH. Pages 172-173.

Description:	Volume
Hematoxylin, Mayer's (Lillie's Modification)	500 ml
	1000 ml
	1 Gallon
Bluing Reagent	500 ml
	10000 ml
	1 Gallon
Mucicarmine Solution (Southgate's)	125 ml
	500 ml
	1000 ml
Tartrazine Solution	125 ml
	500 ml
	1000 ml

Storage: 2° C  25° C**Mixed Storage Conditions.  
Separate Contents.**