



Instructions For Use <b>SMG-IFU</b>		
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P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Fax (435) 755-0015 - [www.scytek.com](http://www.scytek.com)

# Mucicarmine Solution (Southgate's)

**Description:** Mucicarmine Solution (Southgate's) is a component of the Mucicarmine Stain Kit (Catalog# SMS-1) and is intended for use in the histological visualization of acid mucopolysaccharides in tissue sections. Mucicarmine Solution is the component responsible for staining Mucin red. 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:** 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:**


<u>Item #</u>	<u>Contents</u>	<u>Volume</u>	<u>Storage Conditions</u>
SGM125	Mucicarmine Solution	125 ml	2-8° Centigrade
SGM500		500 ml	
SGM999		1000 ml	

**Required But Not Included:**

HMM125	Hematoxylin, Mayer's (125 ml)	Room Temperature
BRT125	Bluing Reagent (125ml)	Room Temperature
TZQ125	Tartrazine Solution (125 ml)	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 

 ScyTek Laboratories, Inc.  
 205 South 600 West  
 Logan, UT 84321  
 435-755-9848  
 U.S.A.

   
 (Regulatory affairs only)  
 EmergoEurope (31)(0) 70 345-8570  
 Molsnstraat 15  
 2513 BH Hague, The Netherlands

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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 (HMM125) for 2-3 minutes.
4. Rinse for 2 minutes in running tap water.
5. Dip slide in Bluing Reagent (BRT125) for 30 seconds.
6. Rinse slide in distilled water.
7. Prepare working Mucicarmine Solution by mixing 1 part Mucicarmine (SGM125) 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 (TZQ125) for 1 minute.
11. Rinse quickly in tap water followed by a quick rinse in distilled water.
12. Dehydrate through graded alcohols.
13. 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



8° C



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