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TECHNICAL DATA SHEET 600

Page 1 of 2

Rapid Mucin Stain Kit

Catalog Number 24208

Please refer to the MSDS for chemical and safety information

Introduction

Secretions of mucins are produced in several areas including epithelial and connective tissue. Inflammation can cause secretion of mucin as well as some types of intestinal carcinomas. The use of a Rapid Mucin will quickly determine the presence of mucin and assist in the direction of other special stains or immunohistochemistry to determine the origin of the mucin producing cells.

Fixation

10% Neutral Buffered Formalin or alcohol can be used. Sections should be cut at 4 μ to 5 μ

Deparaffinize

Slides should be deparaffinized through xylene or substitute to remove the paraffin from the section and descending grades of alcohol to water just prior to staining.

Staining Procedure: Routine Procedure for Room Temperature

1. Mix Wiegert's Iron Hematoxylin Solutions with equal parts of Solutions A & B. This solution can be reused for several days.
2. Place slides in the completed Wiegert's Iron Hematoxylin Solution and stain for 1 minute.
3. Rinse in running tap water for 1 to 3 minutes to allow the color to develop.
4. Place slides in Fast Green FCF Solution **OR** 0.25% Metanil Yellow Acidified for counterstain time of 3 minutes.
5. Rinse in 1% Glacial Acetic Acid, quickly.
6. Place in 0.5% Basic Fuchsin Solution for 4 minutes.
7. Dehydrate through 3 changes of 95% ethyl alcohol – 2 changes of 100% Ethyl Alcohol and 2 changes of Xylenes all with quick dips to avoid decolorizing the slides.
8. Coverslip with Poly-Mount or other media.

Microwave Staining Procedure

Steps with microwave heating must be done under a hood and the microwave must be vented. Heating in a Coplin jar will require 15 to 30 seconds to reach 60°C and 1 to 1 1/2 minutes for 250 mL to reach 60°C in a larger staining dish on HIGH in a microwave or as directed by the manufacturer using a probe. Please calibrate your oven by checking this temperature with room temperature distilled water for accurate control.

1. Mix Wiegert's Iron Hematoxylin Solutions with equal parts of Solutions A & B. This solution can be reused for several days.
2. Place slides in the completed Wiegert's Iron Hematoxylin Solution and stain for 15 to 30 seconds.
3. Rinse in running tap water for 1 to 3 minutes to allow the color to develop.
4. Heat Fast Green FCF Solution **OR** 0.25% Metanil Yellow Acidified as the counterstain in the microwave for 15 to 30 seconds in a Coplin jar or 1 to 1 1/2 minutes for 250 mL in a large staining dish. Place slides in the solution for 15 to 30 seconds.

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5. Rinse in 1% Glacial Acetic Acid, quickly.
6. Heat 0.5% Basic Fuchsin Solution in the microwave for 15 to 30 seconds in a Coplin jar or 1 to 1 1/2 minutes for 250 mL in a large staining dish. Place slides in the stain for 30 seconds to 1 minute.
9. Dehydrate through 3 changes of 95% ethyl alcohol – 2 changes of 100% Ethyl Alcohol and 2 changes of Xylenes all with quick dips to avoid decolorizing the slides.

Results: Nuclei - Black
 Mucin - Red to Pink
 Background Cytoplasm - Green or Yellow (dependent on counterstain)

Ordering Information:

Cat. #	Description	Size
24208	Rapid Mucin Stain Kit contains:	
	Wiegert's Iron Hematoxylin Solution A & B Each	250 mL
	Fast Green FCF 1/5000, Counterstain	250 mL
	0.25% Metanil Yellow Acidified Counterstain	250 mL
	1% Glacial Acetic Acid	250 mL
	0.5% Basic Fuchsin Acidified	250 mL
08381	Poly-Mount	120mL 940mL

To Order:

In The U.S. Call: 1-800-523-2575 • 215-343-6484

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In Germany Call: (49) 6221-765767

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