

Mucicarmine Stain Kit

Catalog Number: 26294

DESCRIPTION

Mucicarmine is a positively charged stain of carmine-aluminum complex bonds that interacts with negatively charged acid mucins. While acidic mucins strongly interact with the stain, neutral mucins do not and sulphated mucins vary in their reaction. Counterstains that also interact with mucins should be avoided as to not skew results. Gastrointestinal control slides can be used for acidic mucin. Mucin concentration can be indicative of diseases such as cancer, asthma, bronchitis, chronic obstructive pulmonary disease, and cystic fibrosis.

KIT CONTENTS

Description	Catalog Number	Volume in Kit
Weigert's Solution A	26294A	125 mL
Weigert's Solution B	26294B	125 mL
Stock Mucicarmine	26294C	60 mL
Acid Alcohol	26294D	250 mL
Scott's Bluing Reagent	26294E	250 mL

FIXATION

This method is most frequently used on paraffin sections of specimen fixed adequately (at least 24 hours) in 10% neutral buffered formalin.

STAINING PROCEDURE (Paraffin Embedded Tissue):

1. Deparaffinize slides and bring to distilled water.
2. Stain in Weigert's Iron Hematoxylin working solution for 10 minutes (To prepare Weigert's iron hematoxylin working solution mix Weigert's Hematoxylin A and Weigert's Hematoxylin B at a 1:1 ratio).
3. Wash in running tap water for 5 minutes.
4. Quickly differentiate in Acid Alcohol; approximately 5-10 dips.
5. Rinse in tap water for 1 minute.
6. Transfer to Scott's Bluing Reagent for 1 minute.
7. Rinse in running tap water for 4 minutes.
8. Stain in Mucicarmine Solution for 20 minutes. (Mucicarmine Solution can be made by combining 10mL of the Stock Mucicarmine with 40mL of distilled water).
9. Rinse in running tap water for 2 minutes.
10. Dehydrate in 95% alcohol then 100% alcohol, and then clear in Xylene (1-2 minutes each).
11. Mount with PolyMount or other synthetic resin.

RESULTS

Mucin: deep rose red

Capsule of Cryptococcus: deep rose red

Nuclei: dark blue-black

REFERENCES

1. Eiman Awad and Esam Mohamed Abdul Raheem, *Demonstration of Mucins in Gastrointestinal Tract Carcinoma Lesions in Sudanese Patients*, International Journal of Pure Applied Sciences and Technology, 21(2) (2014), pp. 28-31

ORDERING INFORMATION

Cat. #	Description	Size
26294-250	Mucicarmine Stain Kit (125 slides)	250mL

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