

E-320 MAYER'S MUCICARMINE METHOD

FIXATION: **10% Buffered Neutral Formalin**

SECTION: Paraffin, @ 6 microns

STAINING PROCEDURE:

1. Deparaffinize and hydrate to distilled water.
2. Stain in working Weigert's Hematoxylin [mix 1 volume of **Weigert's A**, (E-320-3), plus 1 volume of **Weigert's B**, (E-320-4)] for approximately seven minutes. Wash in running water for 10 minutes.
***If using a microwave oven – place slides in working Weigert's Hematoxylin solution and heat in the microwave oven for 30 seconds and immediately transfer to tap water.
3. Stain in the working Mucicarmine (mix 1 volume of **Mucicarmine Stock**, (E-320-1), plus 4 volumes of tap water) for 60 minutes or longer. Prepare working solution fresh, use once and discard.
***If using a microwave oven – place slides in Mucicarmine Working Solution and heat in the microwave oven for 60 seconds. The hot stain jar is removed from the oven and allowed to remain at room temperature (22°) for 5 minutes.
4. Rinse quickly in distilled water for 2 or 3 changes.
5. Counterstain in **Metanil Yellow**, 0.25%, (E-320-2) for 15 seconds to 1 minute or longer. (Older solutions require longer times)
6. Rinse quickly in distilled water. (2-4 seconds)
7. Dehydrate in 95% and 100% alcohol's, two changes; clear through two changes of Xylene.
8. Mount with Permount or other synthetic medium.

RESULTS:

Mucin, Cryptococci Capsulae.....deep rose to red
Other Tissue Elements.....yellow
Nuclei.....black

Note: The rose color due to carmin staining will be obscured if sections are overstained with Weigert's Hematoxylin and/or Metanil Yellow solution.

REFERENCES:

- Mallory, F.B.: Pathological Technique, Hafner Publishing Co., N.Y., c. 1961, p. 130
Luna, L.G., (ed), AFIP Manual of Histologic Staining Methods, 3rd ed., McGraw-Hill Co., NY, c. 1968, pp 161-162.
Sheehan, D.C. & Hrapenak, B.B., Theory and Practice of Histotechnology, 2nd ed., C.V. Mosby Co., St. Louis, c. 1980, pp 168-169.