

F-355 LILLIE'S ALLOCHROME METHOD

Fixation: Any good fixative of choice.

Sections: Paraffin @ 6 microns

Staining:

1. Deparaffinize and hydrate to distilled water.
2. Place for 10 minutes in **Periodic Acid, 0.5%** (F-355-4). Wash for 5 minutes in water.
3. Stain for 10 minutes in **Schiff's Reagent** (F-355-1).
4. Rinse in 2 changes of **Sodium Metabisulfite, 0.5%** (F-355-5), for 2 minutes each change. Wash in water for 10 minutes.
5. **Weigert's Iron Hematoxylin A** (F-355-3A)
6. **Weigert's Iron Hematoxylin B** (F-355-3B)
7. **Mix equal parts of Weigert's A and Weigert's B to make a Weigert's Working Solution.**
8. Stain in Weigert's Working Solution for 2 minutes. Wash for 10 minutes in water.
9. Stain for 6 minutes in **Picric Aniline Blue Solution** (F-355-2).
10. Dehydrate in 95% Alcohol, absolute alcohol, and clear in Xylene, two changes each.
11. Mount with **Permount** (M-18).

Results:

Nuclei	Black, gray or brown
Cytoplasm and muscle cells	Gray, green to greenish-yellow
Reticulum and Collagen	Blue
Basement Membranes	Red

References:

Lillie, R.D., Amer.J. Clin.Path., 21:484-488, 1951

Luna, L.G., (ed), Manual of Histologic Staining Methods of the AFIP
3rd ed., McGraw-Hill, N.Y., 72, c. 1968