

F-362 MASSON'S TRICHROME STAIN

Fixation: Bouin's (F-40) for three days, Moller (F-190) for 24 hours, or 10% Neutral Formalin (F-113).

Sections: Paraffin sections@ 6 microns

PROCEDURE:

1. Deparaffinize by xylene, alcohol and distilled water.
2. Mordant 5 minutes in Ferric Ammonium Sulfate, 5% (F-362-9), previously heated to 45°C or, if Formalin fixed, in Bouin's Solution, (F-362-9a) for one hour @ 56°C.
**
2A. If using a microwave-Mordant in Bouin's Solution (F-362-9A), for 35 seconds in the microwave oven. Let the solution stand for 2 minutes at room temperature.
3. Wash in running water.
4. Stain for 5 minutes in Regauds' Hematoxylin (F-362-1), and rinse in 95% alcohol or stain in Weigert's working solution for 5-10 minutes, wash in running water 10 minutes and rinse in distilled water.
**
4A. If using a microwave, stain in working Weigert's solution for 15 seconds in the microwave oven, wash in running water 10 minutes and rinse in distilled water.
5. Differentiate in Picric Alcohol (F-362-2). Wash in running tap water. (This step may be omitted if Weigert's Iron Hematoxylin is used in step four).
6. Stain 5 minutes in Ponceau Acid Fuchsin (F-362-3). Rinse in distilled water.
7. Differentiate five minutes in Phosphomolybdic Acid, 1% aq (F-362-7).
8. Pour on Aniline Blue Solution (F-362-4), without rinsing. Allow to stand for 5 minutes. Rinse in distilled water.
**
8A. If using a microwave oven-pour on Aniline Blue Solution (F-362-4), without rinsing. Microwave for 15 seconds. Rinse in distilled water.
9. Return to Phosphomolybdic Acid, 1% (F-362-7), for 5 minutes. Place in Acetic Acid, 1% (F-362-8), for 5 minutes.
10. Dehydrate in 95% alcohol, absolute alcohol, clear in xylene. Mount with Permount (M-18)

Stain Results:

Nuclei	Black
Argentaffin Granules	Black or Red
Cytoplasm, Keratin, Intercellular Fibers and Neuroglial Fibers	Red
Collagen	Blue

References:

Masson, P.J., J. Techn. Methods: 12:75 (1929)

Clark, G.: Staining Procedures: 3rd ed., Williams & Wilkins Co. Baltimore,
p. 57c. 1973

Ed.G.Luna AFIP Manual of Histological Staining Methods, 3rd ed., McGraw-Hill Publications, New York, p. 94 c. 1968