

G-462 MONROE-FROMMER METHOD FOR PITUITARY

FIXATION: Zenker's Solution (F-155)

SECTION: Paraffin, 6 microns

STAINING PROCEDURE:

1. Deparaffinize and hydrate to distilled water.
2. Remove mercuric chloride crystals by placing in Lugol's Iodine (G-462-6) or Gram's Iodine (G-462-6A) for 15 minutes. Rinse in water.
3. Clear in Sodium Thiosulfate, 5% (G-462-7) for 3 minutes. Wash in running water for 10 minutes.
4. Tannic Acid, 10% (G-462-1) for 10 minutes. Wash in running water for five minutes.
5. Stain in working Basic Fuchsin Solution (G-462-2B) for 3-5 seconds. Slides should be agitated by dipping in and out of staining solution. Wash in water to remove excess stain.
6. Differentiate in Aniline-Alcohol Solution (G-462-3) until acidophils are red and basophils pink.
7. Phosphomolybdic Acid, 1% (G-462-5) for 30 seconds. Rinse in distilled water.
8. Alcian Blue Solution (G-462-4) for 30 seconds. Rinse in distilled water.
9. Dehydrate in 95% alcohol, absolute alcohol, clear in xylene, two changes each.
10. Mount with Permount (M-18).

RESULTS:

Acidophils	Red
Beta basophiles	Green
Delta basophils	Purple
Collagenous fibers	Bluish Green
Chromophobes	Colorless
Colloid	Red
Neurosecretory granules	Brilliant Red
Neurohypophysical fibers	Blue

REFERENCES:

AFIP, Manual of Histological Staining Methods, 3rd Ed., Ed. L.Luna:
New York: McGraw Hill Publications.c. 1968., p.112.

Monroe, C.W. & Frommer, J., Stain Techn., 41:248.

