F-384 MOVAT’S PENTACHROME METHOD

FIXATION: Formalin, 10% Buffered Neutral
SECTION: Paraffin, 6 microns

STAINING PROCEDURE:

1. Deparaffinize and hydrate to distilled water, then rinse thoroughly in distilled water.
2. Stain in Alcian Blue (F-384-2) 20 min. Wash in running water, 3 min.
3. Tone in Alkaline Alcohol (F-384-6), 2 hrs. (This converts the Alcian Blue into the insoluble pigment monastral fast blue).
4. Wash in running water, 10 min. and then rinse in 70% alcohol.
5. Stain in Resorcin-Fuchsian Working, 16 hrs. Wash in running water, 10 min. and then in distilled water.
   *To prepare working solution mix:
   
   | Resorcin Fuchsian Stock (F-384-3) | 10 ml  |
   | 70% Alcohol                     | 100 ml |
   | Hydrochloric Acid, conc.        | 2 ml   |

6. Stain in Working Weigert’s Hematoxylin [(mix 1 volume of Weigert’s A (F-384-1A) plus 1 volume of Weigert’s B (F-384-1B) for 15 minutes. Rinse in running water and then in distilled water.
7. Stain in Woodstain Scarlet – Acid Fuchsin, (F-384-4), 5 min. Rinse in Acetic Acid, 0.5% (F-384-8).
8. Differentiate in Phosphotungstic Acid, 5%, (F-384-9), 10-20 min. Check microscopically until the background returns to blue and the collagen is pale pink.
9. Rinse in Acetic Acid, 0.5% (F-384-8). Take the slide through three changes of absolute alcohol of high purity.
10. Stain in Alcoholic Safran Solution, (F-384-5), for 5-15 minutes.
11. Dehydrate through three changes of 100% alcohol. Clear in three changes of Xylene, high purity. Check with a microscope; the collagen should be yellow, if not return to the safran stain.

STAIN:

| Black          | Nuclei          |
| Purple-Black   | Elastic Fibers  |
| Dark Red-Red   | Fibrinoid, Muscle |
| Blue-Blue Green| Ground or Background substance |
| Yellow         | Collagen, Reticulum Fibers |

REFERENCES:

