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**F-379     HART'S METHOD FOR ELASTIC FIBERS**

**FIXATION:**    **10% Buffered Neutral Formalin**

**SECTION:**    Paraffin, @ 6 microns

**STAINING PROCEDURE:**

1. Deparaffinize and hydrate to distilled water.
2. Oxidize in **Potassium Permanganate, 0.25%, Aqueous**, (F-379-3), 5 minutes. Rinse in distilled water for several minutes and then tone in **Oxalic Acid, 5%, Aqueous**, (F-379-4) until the sections are clear.
3. Wash in running tap water for several minutes and then transfer to distilled water.
4. Stain in working Resorcin-Fuchsin overnight (12 hours).  
    To prepare working solution, mix just before use:  
        10 ml **Resorcin Fuchsin Stock**, (F-379-1)  
        100 ml 70% Alcohol  
        2.0 ml Hydrochloric Acid, concentrated
5. Wash in running tap water for ten minutes and then rinse in distilled water.
6. Counterstain in **Van Gieson's Solution**, (F-379-2), 1 minute.
7. Dehydrate in 95% Alcohol, Alcohol and clear in Xylene, two changes each.
8. Mount.

**RESULTS:**

Elastic Fibers.....black – dark blue  
Nuclei.....dark black blue  
Collagen.....red-pink  
Miscellaneous Tissue Elements.....yellow  
(Depending on chosen counterstain)

**REFERENCES:**

Mallory, F.B.: Pathological Technique: New York: Hafner Publishing Co., c. 1968, 3<sup>rd</sup> Ed., p. 169.

Luna, L.G.: AFIP Manual of Histologic Staining Technique, New York: McGraw-Hill Book Co., 3<sup>rd</sup> ed., c. 1968, p. 79.