

**F-371      VERHOEFF'S ELASTIC TISSUE  
STAIN**

**FIXATION:**    **10% Formalin**, (F-111) or **Zenker's Stock Solution** (F-155)

**SECTION:**    Paraffin, @ 6 microns

**STAINING PROCEDURE:**

1. Deparaffinize and hydrate to distilled water.
2. Place in staining solution for 15 minutes. Staining solution should be prepared fresh.  
Combine:  
                  25ml **Iron Solution**, (F-371-1)  
                  10ml **Potassium Iodide, 3%**, (F-371-2)  
                  3.5ml **Alcoholic Hematoxylin, 10%**, (F-371-3)  
Use once and discard.
3. Wash in tap water. Differentiate in **Iron Solution**, (F-371-1) diluted 1-4 with distilled water.
4. Counter-stain with **Van Gieson's Solution**, (F-371-4), 3-5 minutes.
5. Dehydrate, clear and mount.

**RESULTS:**

Elastic Fibers.....intensely blue-black  
Nuclei.....blue to black  
Collagen.....red  
Smooth and Striated Muscle.....brownish

**REFERENCES:**

Clark, G., Ed.: Staining Procedures, 3<sup>rd</sup> ed.; Baltimore: Williams and Wilkins Co., c. 1972, p. 61.

AFIP Manual of Histologic Staining Techniques, 3<sup>rd</sup> ed., Ed. G. Luna: New York: McGraw-Hill Publications, C. 1968, p. 76.

