

Van-Gieson's Method for Collagen Fibers

Catalog #: 26350-Series

Fixation:

10% Buffered Neutral Formalin (#15740) or fixative of choice.

Sections:

Paraffin at 6µm or Celloidin.

Staining Procedures:

1. Deparaffinize and hydrate to distilled water.
2. Weigert's Working Hematoxylin* for 10 minutes)
 - a. *Weigert's Working Solution is prepared by mixing equal parts of Weigert's Iron Hematoxylin A (#26350-02) and Weigert's Iron Hematoxylin B (#26350-03)
3. Wash in distilled water.
4. Stain 1 – 3 minutes in Van Gieson's Solution (#26350-01)
5. Dehydrate in 95% alcohol, absolute alcohol, two changes each. Clear in 2 changes Xylene (#23400).
6. Mount with Permount (#17986-01) or DPX (#13510).

Stain Results:

Collagen	Red
Smooth and striated muscle	Yellowish to brownish
Cornified epithelium	Yellow
Hyalin	Yellow
Nuclei	Blue to Black

References:

Clark, G., (ed) Staining Procedures, 3rd Ed., William & Wilkins Co., Baltimore, c 1973, p.50

Luna, L. (ed) AFIP Manual of Histological Staining Methods, 3rd Ed., New York, McGraw Hill Publications, c. 1968, p. 76.

Luna, L.G., (ed), Manual of Histologic Staining Methods of the AFIP, 3rd edition, McGraw-Hill, c 1968, p.76.

Van Gieson, I., New York Med. J., 50:57-60, 1889.

Mallory, F.B., Pathological Technique, W.B. Saunders Co. Philadelphia 1938.

Mallory, F.B., Pathological Technique, Hafner Publishing., New York, 1961, p 152.