

# medilines

## Van Gieson Colour

For **Collagen**

### DESIGN TO DEMONSTRATE

Connective Tissue suitable for showing coarse collagen fibres, but not recommended for fine collagen fibres or muscle collagen comparisons.

### REAGENTS & PREPARATIONS

**VG Solution A**

**VG Solution B**

**VG Solution 1:**

Make fresh before Use

VG Solution A      1 Volume

VG Solution B      1 Volume

**Decolourizer:**

Ready to use

**VG Solution 2:**

Ready to use

### TISSUE SAMPLE

4-5 $\mu$  paraffin sections of neutral buffered formalin fixed tissue are suitable.

### STAINING PROCEDURES

1. Remove Paraffin through xylene, rehydrate through graded ethanol and bring sections to distilled water just prior to staining.
2. Place into the **VG Solution 1** for 15 - 20 minutes.
3. Decolorize with **Decolourizer** for 5 seconds. Wash in running tap water for 30 seconds and rinse in distilled water. **OR**, Wash in water until nuclei are dark blue-black and the background a paler blue-black.
4. Stain with **VG Solution 2** for 3 minute.
5. Dehydrate rapidly in absolute alcohol.
6. Clear in xylene. Mount in synthetic resin

### EXPECTED RESULTS

Nuclei	Brown - black
Collagen	Red
Muscle, RBCs, Cytoplasm	Yellow

### CONTROL

Section containing connective tissue. eg skin

### Notes

Rapid washing, blotting and brief dehydration are advised.

### Reference

(Van Gieson 1889) p 4 H C Cook, Manual of Histological Demonstration Techniques p 127 Bancroft JD & Stevens, Theory and Practice of Histological Techniques 4th ed

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