

## Goldner's Trichrome Method

Catalog #26386

### Fixation

10% Buffered Neutral Formalin or Bouin's Solution

### Sections

Paraffin, frozen or celloidin

### Microtomy

Cut paraffin sections at 6 micrometers.

### Procedure

1. Decerate slides in Xylene, 2 changes, 2 minutes each. Place in absolute alcohol, 2 changes, 2 minutes each; 95% alcohol, 2 changes, 2 minutes each; then rinse in distilled water.
2. Mordant in Bouin's Fluid solution for 1 hour at 56°C, or overnight at room temperature, if formalin fixed.
3. Cool and wash in running tap water until yellow color disappears.
4. Rinse in distilled water.
5. Place in Weigert's Hematoxylin for 10 minutes.

\*\*\*To prepare Weigert's Solution, mix equal parts of:

Weigert's Iron Hematoxylin A

Weigert's Iron Hematoxylin B

\*\*\* stir vigorously.

6. Wash in running tap water for 10 minutes.
7. Rinse in distilled water.
8. Stain in Ponceau Acid Fuchsin for 5 minutes.
9. Wash in Acetic Acid, 1%.
10. Place in Phosphomolybdic Acid-Orange G solution until collagen is decolorized.
11. Rinse in Acetic Acid, 1% for 30 seconds.
12. Stain in Light Green Stock Solution for 5 minutes.
13. Rinse in Acetic Acid, 1%, for 5 minutes.
14. Blot sections but do not allow to dry.
15. Dip quickly in absolute alcohol.
16. Dehydrate slides in 95% alcohol and absolute alcohol 3 changes each. Clear in Xylene, 3 changes.
17. Mount coverglass with appropriate medium (refractive index 1.48-1.56).

### Stain Results

Nuclear chromatin	Brownish black
Cytoplasm	Bright red
Erythrocytes	Orange
Muscle	Red
Collagen	Green

### References

Luna, Lee G. Histopathologic Methods and Color Atlas of Special Stains and Tissue Artifacts  
Johnson Printers, Downers Grove , IL p 151-152, c 1992.