F-355  LILLIE’S ALLOCHROME METHOD

Fixation: Any good fixative of choice.
Sections: Paraffin @ 6 microns

Staining:
1. Deparaffinize and hydrate to distilled water.
2. Place for 10 minutes in Periodic Acid, 0.5% (F-355-4). Wash for 5 minutes in water.
3. Stain for 10 minutes in Schiff’s Reagent (F-355-1).
4. Rinse in 2 changes of Sodium Metabisulfite, 0.5% (F-355-5), for 2 minutes each change. Wash in water for 10 minutes.
5. Weigert’s Iron Hematoxylin A (F-355-3A)
6. Weigert’s Iron Hematoxylin B (F-355-3B)
7. Mix equal parts of Weigert’s A and Weigert’s B to make a Weigert’s Working Solution.
8. Stain in Weigert’s Working Solution for 2 minutes. Wash for 10 minutes in water.
9. Stain for 6 minutes in Picric Aniline Blue Solution (F-355-2).
10. Dehydrate in 95% Alcohol, absolute alcohol, and clear in Xylene, two changes each.

Results:

<table>
<thead>
<tr>
<th></th>
<th>Black, gray or brown</th>
<th>Gray, green to greenish-yellow</th>
<th>Blue</th>
<th>Red</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nuclei</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cytoplasm and muscle cells</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reticulum and Collagen</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basement Membranes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

References:

Luna, L.G., (ed), Manual of Histologic Staining Methods of the AFIP