**F-365, LUNA-ISHAK METHOD FOR BILE CANALICULI**

**Fixation:** 10% Buffered Neutral Fomalin (F-113)

**Sections:** Paraffin @ 6 microns

**Staining:**
1. Deparaffinize and hydrate to distilled water.
2. Stain in **Celestine Blue Solution** (F-365-1) for 30 minutes. Rinse in distilled water.
3. Place for 15 minutes in **Phosphotungstic Acid, 1%** (F-365-2) Wash in water for 3 minutes.
4. Place in working Acid Fuchsin solution * for 8 minutes.
   Prepare working stain by mixing:
   - **Acid Fuchsin, 1%** (F-365-3A) 10ml
   - **Oxalic Acid, 1%** (F-365-3B) 1 ml
   - Distilled Water 80 ml
5. Dehydrate rapidly** in 95% alcohol, absolute alcohol, and clear in xylene, two changes each.
   **Note:** Water and alcohol will remove red dye on prolonged exposure.

**Results:**

<table>
<thead>
<tr>
<th>Bile canaliculi</th>
<th>Pink to red</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nuclei</td>
<td>Blue</td>
</tr>
<tr>
<td>Bile</td>
<td>Yellowish-green</td>
</tr>
<tr>
<td>Iron</td>
<td>Brown with some red inclusions</td>
</tr>
<tr>
<td>Background</td>
<td>Bluish-pink</td>
</tr>
</tbody>
</table>

**References:**