

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

**Fixation:** 10% Buffered Neutral Formalin (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.
6. Mount with Permount (M-18).

**Results:**

Bile canaliculi	Pink to red
Nuclei	Blue
Bile	Yellowish-green
Iron	Brown with some red inclusions
Background	Bluish-pink

**References:**

Luna, L.G. and Ishak, K., Amer.J.Med. Techn., 33:459-466, 1967

Luna, L.G. (ed), Manual of Histologic Staining Methods of the AFIP, 3<sup>rd</sup> edition  
McGraw-Hill, NY c 1968, p.74.