F-393, GOMORI’S METHOD FOR RETICULUM

Fixation: Formalin, 10% Buffered Neutral (F-113)

Section: Paraffin, 6 microns

Staining:

1. Deparaffinize and hydrate to distilled water.

2. Oxidize in Potassium Permanganate, 0.5% (F-393-2), 1 minute, then wash in tap water, 2 minutes.

3. Differentiate in Potassium m-Bisulfite, 2% (F-393-3), 1 minute, then wash in tap water, 2 minutes.

4. Sensitize in Ferric Ammonium Sulfate, 2% (F-393-4), 1 minute, then wash in tap water, 2 minutes, and transfer through two washes of distilled water, 30 seconds each.

5. Impregnate tissue with Ammoniacal Silver Solution for 1 minute. Rinse in distilled water for 20 seconds. (follow instructions below)

   *To prepare Gomori’s Ammoniacal Silver Solution, add 2.5ml of Potassium Hydroxide, 10% (F-393-1B) to 10ml of Silver Nitrate, 10% (F-393-1A). Add concentrated Ammonium Hydroxide, conc. (F-393-1C), dropwise, while stirring or shaking the container continuously, until the precipitate is just dissolved completely. Do not add excess Ammonium Hydroxide. Add, again, 4 drops of Silver Nitrate, 10% (F-393-1A) for every 10ml of Silver Nitrate, 10% used at the start.

   Bring the solution to twice its volume with distilled water. Use at once or filter through Whatman #50 paper and store in refrigerator in well sealed amber glass bottle.

**Use chemically-clean glassware.

6. Reduce in Formalin, 20% (F-393-6), 3 minutes. Rinse in tap water, 3 minutes.

7. Tone in Gold Chloride, 0.2% (F-393-5), 10 minutes, rinse in distilled water.

8. Reduce in Potassium m-Bisulfite, 2% (F-393-3), 1 minute. Transfer to Sodium Thiosulfate, 2% (F-393-7), for 1 minute to fix stain. Wash in tap water 2 minutes.

9. Dehydrate in 95% and 100% alcohol, 2 changes and clear in Xylene (C-120), 2 changes. Mount

**Stain Results:** Black……Reticulum fibers
                     Gray……Background

REFERENCES:


January 7, 2019