

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:

Gomoris, G.: Amer. J. Pathol.; 13:993 (1937).
Luna, L.F., ed. : AFIP Manual of Histologic Staining Method; 3rd. ed., New York, McGraw-Hill Book Company, c. 1968, p. 87