

F-395 SNOOK'S METHOD FOR RETICULUM

FIXATION: **10% Buffered Formalin**

SECTION: Paraffin at 6 microns

STAINING PROCEDURE:

Staining: Use only acid clean glassware and paraffin coated forceps. Replace solutions after 10-12 slides have been processed, one slide at a time.

1. Deparaffinize and hydrate to distilled water.
2. Oxidize in **Potassium Permanganate, 0.25%, Aqueous**, (F-395-2) 5 minutes. Wash in tap water.
3. **Oxalic Acid, 5%**, (F-395-9) until sections are clear. Wash in tap water, then in distilled water.
4. Mordant in **Zinc Formalin (F-395-3)** 5 seconds. Wash in running water.
5. Ammoniacal Silver Solution,* freshly prepared for 1 minute. Dip in running water.
 - *The Ammoniacal Silver Solution is prepared as follows:
 - a. Add 20 drops of **Sodium Hydroxide, 10%, Aqueous** (F-395-1B) to 20ml of **Silver Nitrate, 5%, Aqueous** (F-395-1A) in an Erlenmeyer flask.
 - b. Add **Ammonium Hydroxide, concentrate**, (F-395-1C) drop by drop until only a few granules of the resulting precipitate remain, stir constantly.
 - c. Add distilled water to bring the volume to 60ml, filter and use at once.
6. **Formalin, 1%**, (F-395-7) 1 minutes. Wash in running water.
7. **Gold Chloride, 1%**, (F-395-4) until section is grayish black (1 minute). Wash in running water.
8. **Sodium Thiosulfate, 5%, Aqueous**, (F-395-8) 30 seconds to 1 minute. Wash in running water.
9. Counterstain in **Nuclear Fast Red**, (F-395-5) 5 minutes. Rinse in distilled water.
10. Dehydrate through 95% alcohol and absolute alcohol. Clear in **Xylene**, (C-120) two changes. Mount.

RESULTS:

Reticulum Fibers.....gray to black
Background.....pink

NOTE: If beading effect, rather than well-defined fibers are noticed, replace Ammoniacal Silver, Uraninum Nitrate and Formalin solutions.

REFERENCES:

AFIP Manual of Histological Staining Methods, 3rd ed., Ed. L. Luna: N.Y. McGraw Hill Publications, c. 1968, p. 91.
Snook, T., Anat. Rec., 89:413 (1944).