

MANUEL'S METHOD FOR RETICULUM

PURPOSE:	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of reticulum fibers.
PRINCIPLE:	Uranyl Nitrate first sensitizes the reticulum fibers to produce active sites which readily take up the Silver from the Diamino Silver Solution. Formaldehyde then reduces the Silver to the metallic form and Gold is used to tone the stain. Finally, Sodium Thiosulfate removes unreacted Silver and a counterstain is used if desired.
CONTROL:	Liver <i>Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs024.</i>
SPECIMEN PREPARATION:	Formalin fixed, paraffin embedded sections cut at 6 micrometers
SOLUTIONS:	1. Uranyl Nitrate 1% Aqueous Item# s288B 2. Ammoniacal Silver Nitrate-Gomori's Item# s114 3. Formalin 1% Non Buffered Item# s2000 4. Gold Chloride 1% Aqueous Item# s203 5. Sodium Thiosulfate 5% Aqueous Item# s1895 6. Nuclear Fast Red Kernechtrot 0.1% Item# s248 <i>Solutions can be purchased separately from Poly Scientific.</i>
NOTES:	
REFERENCE:	Luna, Lee G. <u>Histopathologic Methods and Color Atlas of Special Stains and Tissue Artifacts</u> . American Histolabs Inc. Gaithersburg, MD. 1992. p. 415.

STAINING PROCEDURE:

1. Deparaffinize and hydrate to distilled water.
2. Sensitize in Uranyl Nitrate 1% Aqueous for 2 minutes.
3. Dip quickly in running water.
4. Impregnate in Ammoniacal Silver Nitrate-Gomori's for 1 minute.
5. Wash in running water, 2 or 3 quick dips (until no more white precipitate appears in the water).
6. Develop in Formalin 1% Non Buffered for 1 minute.
7. Wash in running water.
8. Tone in Gold Chloride 1% Aqueous for 1 minute.
9. Wash in running water.
10. Reduce in Sodium Thiosulfate 5% Aqueous for 1 minute.
11. Wash in running water.
12. Counterstain with Nuclear Fast Red Kernechtrot 0.1% for 5 minutes.
13. Rinse in distilled water for 3 changes.
14. Dehydrate in 95% Alcohol, Absolute Alcohol and clear in Xylene, 2 changes each.
15. Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

RESULTS:

ReticulumBlack
Nuclei and Background.....Red

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