

**GOMORI'S METHOD FOR RETICULUM FIBERS**

<b>PURPOSE:</b>	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of reticulum fibers in tissue.
<b>PRINCIPLE:</b>	Potassium Permanganate first oxidizes the reticulum fibers to produce active sites which readily take up the Silver from the Ammoniacal Silver Nitrate 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.
<b>CONTROL:</b>	Normal liver <i>Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs024.</i>
<b>SPECIMEN PREPARATION:</b>	10% Buffered Formalin fixed, paraffin embedded sections cut at 6 micrometers
<b>SOLUTIONS:</b>	1. Ammoniacal Silver Nitrate Solution Gomori's Item# s114 2. Potassium Permanganate 0.5% Aqueous Item# s263 3. Potassium Meta-Bisulfite 2% Aqueous Item# s2005 4. Ferric Ammonium Sulfate 2% Aqueous Item# s179 5. Formalin 20% Non Buffered Item# s1807 6. Sodium Thiosulfate 2% Aqueous Item# s280 7. Gold Chloride 0.2% Aqueous Item# s202  <i>Solutions can be purchased separately from Poly Scientific.</i>
<b>NOTES:</b>	
<b>REFERENCE:</b>	Gomori, G. "Gomori's Reticulum Method". <u>Amer. J. Path</u> 13: 993-1002, 1937.

**STAINING PROCEDURE:**

1. Deparaffinize and hydrate to water.
2. Oxidize in Potassium Permanganate 0.5% Aqueous for 1 minute.
3. Wash in tap water for 2 minutes.
4. Place in Potassium Meta-Bisulfite 2% Aqueous for 1 minute.
5. Wash in tap water.
6. Place in Ferric Ammonium Sulfate 2% Aqueous for 1 minute.
7. Wash in distilled water.
8. Place in Ammoniacal Silver Nitrate Solution Gomori's for 3 minutes.
9. Four changes of distilled water.
10. Flood slides with Formalin 20% Non Buffered for 3 minutes. Sections should turn black immediately. If this does not occur, one of your solutions is ineffective and the entire procedure should be started again with fresh solutions and acid cleaned glassware.
11. Wash well in running water.
12. Dip 3 times in Gold Chloride 0.2% Aqueous.
13. Wash well in running water.
14. Place in Potassium Meta-Bisulfite 2% Aqueous for 1 minute.
15. Place in Sodium Thiosulfate 2% Aqueous for 1 minute.
16. Wash well in water.
17. Counterstain with Eosin or Light Green if desired.
18. Dehydrate in 95% Alcohol, Absolute Alcohol and clear in Xylene, 2 changes each.
19. Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

**RESULTS:**

Reticulum Fibers ..... Black  
Background ..... Gray

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