FONTANA MASSON SILVER METHOD FOR ARGENTAFFIN GRANULES

PURPOSE:	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of argentaffin substances.
PRINCIPLE:	Argentaffin substances are able to bind and reduce silver to the visible form. Gold Chloride is used as a toner by replacing some of the bound silver with gold. Sodium Thiosulfate removes excess silver. Nuclear Fast Red is a counterstain.
CONTROL:	Skin Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs019.
SPECIMEN PREPARATION:	Formalin fixed, paraffin embedded sections cut at 6 micrometers
SOLUTIONS:	1. Silver Nitrate Solution Fontana Item# s181S 2. Gold Chloride 0.2% Aqueous Item# s202 3. Sodium Thiosulfate 5% Aqueous Item# s1895 4. Nuclear Fast Red Kernechtrot 0.1% Item# s248 Solutions can be purchased separately from Poly Scientific.
NOTES:	Use chemically clean glassware.
REFERENCE:	Luna, Lee G. <u>Histopathologic Methods and Color Atlas of Special Stains and Tissue Artifacts</u> . American Histolabs Inc. Gaithersburg, MD. 1992, pp. 286-287.

STAINING PROCEDURE:

- 1. Deparaffinize and hydrate to distilled water.
- Place in Silver Nitrate Solution Fontana at 56°C for 1 hour. Sections should be light brown.
- Rinse sections in distilled water. 3.
- Place in Gold Chloride 0.2% Aqueous for 5 minutes.
- Rinse in distilled water, 3 changes. 5.
- Place in Sodium Thiosulfate 5% Aqueous for 2 minutes. 6.
- Rinse in distilled water.
- 8. Place in Nuclear Fast Red Kernechtrot 0.1% for 5 minutes.
- Rinse in distilled water, 2 changes.
- 10. Dehydrate in 95% Alcohol, Absolute Alcohol and clear in Xylene, 2 changes each.
- 11. Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

RESULTS:

Nuclei......Pink

Poly Scientific R&D Corp.

Revision: B-18

PAGE 12

