

Fontana-Masson Stain Kit

(For Argentaffin Cells and Melanin)

Description: The Fontana-Masson Stain Kit is intended for use in the histological visualization of Argentaffin cells and Melanin in paraffin or frozen sections.

Argentaffin Cells:	Black
Melanin:	Black
Nuclei:	Red
Cytoplasm:	Light Pink

Uses/Limitations: For In-Vitro Diagnostic use only.
Histological applications.
Do not use past expiration date.
Use caution when handling these reagents.

Control Tissue: Any paraffin embedded tissue that contains Hair Follicles or Skin for Melanin.
Small Intestine for Argentaffin.

Availability/Contents:


<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
Gold Chloride Solution (0.2%)	125 ml	2-8° Centigrade
Silver Nitrate Solution (10%)	5 x 9ml	2-8° Centigrade
Sodium Thiosulfate Solution (5%)	125 ml	Room Temperature
Nuclear Fast Red Solution	125 ml	Room Temperature

Precautions: Avoid contact with skin and eyes.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.
Use in chemical fume hood whenever possible.

Preparation of Reagent Prior to Beginning:

Prepare fresh **Ammoniacal Silver Solution** prior to use.

Using chemically cleaned glassware or new plastic ware, add one vial of **Silver Nitrate Solution** to 27ml Distilled water and mix. Next add, drop by drop, *Concentrated Ammonium Hydroxide (Not included in this kit!)*; the solution initially turns dark brown and then gradually becomes transparent with a layer of fine sediment. Solution is ready to use when all sediment is dissolved.

Storage: 2° C  25° C


**Mixed Storage Conditions.
Separate Contents.**

Procedure (Standard):

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Place freshly mixed Ammoniacal Silver Solution in a 58-60°C waterbath and bring to temperature.
3. Incubate slide in warmed Ammoniacal Silver Solution for 30-60 minutes or until tissue section becomes yellowish/brown in color. (**NOTE:** Melanin typically stains in 30 minutes while Argentaffin stains in 50-60 minutes)
4. Rinse in several changes of distilled water.
5. Incubate slide in Gold Chloride Solution (0.2%) for 30 seconds.
6. Rinse in several changes of distilled water.
7. Incubate slide in Sodium Thiosulfate Solution (5%) for 1-2 minutes.
8. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.
9. Incubate slide in Nuclear Fast Red Solution for 5 minutes.
10. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.
11. Dehydrate very quickly in 3 changes of fresh Absolute Alcohol.
12. Clear, and mount in synthetic resin.

References:

1. Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2nd Edition. Battelle Press, Columbus, OH.

Storage: 2° C  25° C

**Mixed Storage Conditions.
Separate Contents.**