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. In addition, the Fontana-Masson stain has been reported to be useful in identifying Capsule-Deficient Cryptococcus Neoformans and typical Cryptococcus Neoformans.

**Uses/Limitations:** Not to be taken internally. For In-Vitro Diagnostic use only. Histological applications. Do not use past expiration date. Use caution when handling reagents. Non-Sterile.

**Results:**
- Argentaffin Cells: Black
- Melanin: Black
- Cryptococci Cell Wall: Black
- Nuclei: Red
- Cytoplasm: Light Pink

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

**Kit Contents:**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Kit Contents</th>
<th>Volume</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSC-GCB125</td>
<td>Gold Chloride Solution (0.2%)</td>
<td>125 ml</td>
<td>2-8°C</td>
</tr>
<tr>
<td>SSC-SNX009</td>
<td>Silver Nitrate Solution (10%)</td>
<td>5 x 9ml</td>
<td>2-8°C</td>
</tr>
<tr>
<td>SSC-STB125</td>
<td>Sodium Thiosulfate Solution (5%)</td>
<td>125 ml</td>
<td>18-25°C</td>
</tr>
<tr>
<td>SSC-NFS125</td>
<td>Nuclear Fast Red Solution</td>
<td>125 ml</td>
<td>18-25°C</td>
</tr>
</tbody>
</table>

**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.

**Mixed Storage Conditions. Separate Contents.**

For information regarding ordering individual components, please contact us at: 800-442-3573. **Control Slides Available. Catalog: CS-ARG/25, Argentaffin, 25/pack**
Preparation of Reagent Prior to Beginning:

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

In new or chemically cleaned glassware, mix 27ml Distilled/Deionized water with one vial of Silver Nitrate Solution (10%) and blend completely. Carefully add Concentrated Ammonium Hydroxide (Not included) one drop at a time, swirling gently after each drop. Initially the mixture will turn dark brown and then gradually become transparent with a fine layer of sediment. The solution is ready for immediate use when all sediment dissolves.

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 allow adequate time for temperature to equalize.
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 3 changes of distilled water.
5. Incubate slide in Gold Chloride Solution (0.2%) for 30 seconds.
6. Rinse in 3 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 absolute alcohol.

References:

Lot-to-Lot Validation Form  
Fontana-Masson Stain Kit Catalog: SSK-FONTMASS

<table>
<thead>
<tr>
<th>Kit Lot Number:</th>
<th>Kit Expiration Date:</th>
<th>Kit Component</th>
<th>Lot #</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Gold Chloride (0.2%) Sol.</td>
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<tr>
<td></td>
<td></td>
<td>Silver Nitrate (10%) Sol.</td>
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<tr>
<td></td>
<td></td>
<td>Sodium Thiosulfate (5%)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Nuclear Fast Red Solution</td>
<td></td>
</tr>
</tbody>
</table>

Control Tissue (#):  
Approved for Use: Y/N  
Date tested:  
Approved by:  

If not approved, corrective actions taken:

Approved for Use: Y/N  
Date put into use:

<table>
<thead>
<tr>
<th>Replacement Component if used</th>
<th>Replacement Date</th>
<th>Lot #</th>
<th>Accepted Y/N</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold Chloride (0.2%) Sol.</td>
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<td>Silver Nitrate Sol. (10%)</td>
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</table>

StatLab is providing this form to assist with reagent lot validation as stated in CLIA’88 Standard 493.1256-For reagent(s), the laboratory must do the following: Check each batch (prepared in-house), lot number (commercially prepared) and shipment of reagents, stains, and identification systems (systems using two or more substrates or two or more reagents, or a combination) when prepared or opened for positive and negative reactivity, if applicable.