Calcium Stain Kit (Modified Von Kossa)

**Description:**
The Calcium Stain Kit (Modified Von Kossa) is intended for use in the histological visualization of calcium deposits in paraffin or frozen sections.

- Calcium in mass deposits: Black
- Calcium in dispersed deposits: Gray
- 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 calcium deposits.

**Availability/Contents:**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Kit Contents</th>
<th>Volume</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNV030</td>
<td>Silver Nitrate Solution (5%)</td>
<td>30 ml</td>
<td>2-8°C</td>
</tr>
<tr>
<td>STB030</td>
<td>Sodium Thiosulfate Solution (5%)</td>
<td>30 ml</td>
<td>18-25°C</td>
</tr>
<tr>
<td>NFS030</td>
<td>Nuclear Fast Red Solution</td>
<td>30 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.

**Procedure (Standard):**

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Incubate slide in 6-8 drops of Silver Nitrate Solution (5%) for 30-60 minutes while exposing to either ultraviolet light or incandescent light at 75 watts or greater. For best results, keep light source within 2 feet (61cm) of slide during Silver Nitrate staining procedure.
3. Rinse in 3 changes of distilled water.
4. Incubate slide in 5-8 drops of Sodium Thiosulfate Solution (5%) for 2 minutes.
5. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.
6. Stain tissue section with 6-8 drops of Nuclear Fast Red Solution for 5 minutes.
7. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.
8. Dehydrate very quickly in 3 changes of Absolute Alcohol.
References: