J-614 GOMORIS' METHENAMINE SILVER FOR URATE CRYSTALS

**Fixation:** Absolute Alcohol at 4°C for overnight.

**Sections:** Paraffin @ 4-5 microns

**PROCEDURE:**

1. Deparaffinize to Xylene and rinse with 3 changes of absolute alcohol.
2. Place slides in preheated working Methenamine Silver. Incubate for 30 minutes @ 60°C.
   *To prepare working solution:
   A. Methenamine-Silver Nitrate Stock Solution
      Silver Nitrate, 5% **aq.** (J-614-1) 5ml
      Methenamine, 3% **aq.** (J-614-2) 100ml
   B. Methenamine-Silver Nitrate Working Solution
      Methenamine Silver-Nitrate Stock Sol'n 25ml
      Distilled Water 25ml
      Sodium Borate, 5% **aq.** (J-614-3) 2ml
   Prepare fresh prior to use. Do not use if cloudy.
   *Urate crystals should be black.
3. Rinse sections is distilled water.
4. Tone with Gold Chloride, 0.1% (J-614-4) for 5 minutes.
5. Give sections 4 or 5 rinses of distilled water.
6. Sodium Thiosulfate, 3% (J-614-5) for 5 minutes.
7. Wash in tap water for 5 minutes.
8. Rinse in distilled water.
9. Counterstain in Light Green Working Solution (J-614-6) for 2 minutes.
10. Dehydrate, clear and mount.

**Stain Results:**

<table>
<thead>
<tr>
<th></th>
<th>Urate Crystals</th>
<th>Black</th>
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</thead>
<tbody>
<tr>
<td>Background</td>
<td>Green</td>
<td></td>
</tr>
</tbody>
</table>

**References:**

Sheehan, Dezna C. and Hrapchak, Barbara B.
Theory and Practice of Histotechnology, 2\textsuperscript{nd} ed.