Victoria Blue Stain, Alcoholic - Technical Memo

**SOLUTION:**

<table>
<thead>
<tr>
<th>Victoria Blue Stain, Alcoholic</th>
<th>500 ml</th>
<th>1 Liter</th>
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</thead>
<tbody>
<tr>
<td>Part 1406A</td>
<td></td>
<td>Part 1406C</td>
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**Additionally Needed:**

- Elastic, Aorta Control Slides: Part 4194 or Elastic, Skin Control Slides: Part 4195
- Xylene, ACS: Part 1445
- Alcohol, Ethyl Denatured, 100%: Part 10841
- Alcohol, Ethyl Denatured, 95%: Part 10842
- Potassium Permanganate 1%, Aqueous: Part 13393
- Sulfuric Acid 1%, Aqueous: Part 14012
- Sodium Bisulfite 1%, Aqueous: Part 13821
- Alcohol, Ethyl Denatured, 70%: Part 10844
- Nuclear Fast Red Stain, Kernechtrot: Part 1255

**APPLICATION:**

Newcomer Supply Victoria Blue Stain, Alcoholic, a uniquely blended stain solution, is used for the demonstration of connective tissue, elastic fibers and fibrosis. Other applications include staining of copper-associated protein in liver sections.

**METHOD:**

- **Fixation:** Formalin 10%, Phosphate Buffered (Part 1090)
- **Technique:** Paraffin sections cut at 5 microns
- **Solutions:** All solutions are manufactured by Newcomer Supply, Inc.

All Newcomer Supply stain procedures are designed to be used with Coplin jars filled to 40 ml following the staining procedure provided below.

**STAINING PROCEDURE:**

1. Deparaffinize sections thoroughly in three changes of xylene, 3 minutes each. Hydrate through two changes each of 100% and 95% ethyl alcohols, 10 dips each. Wash well with distilled water.
   - a. See Procedure Note #1.
2. Prepare fresh Potassium Permanganate-Sulfuric Acid Working Solution; combine and mix well.
   - a. Potassium Permanganate 1%, Aqueous (13393) 10 ml
   - b. Sulfuric Acid 1%, Aqueous (14012) 10 ml
   - c. Distilled Water 40 ml
3. Place slides in Potassium Permanganate-Sulfuric Acid Working Solution for 5 minutes.
4. Treat with Sodium Bisulfite 1%, Aqueous (13821) for 2 minutes or until sections are colorless.
5. Wash slides well in running tap water.
6. Rinse in 70% ethyl alcohol (10844) for 2 minutes.
7. Stain in Victoria Blue Stain, Alcoholic for a minimum of 4 hours.
   - a. See Procedure Note #2.
8. Differentiate in 70% ethyl alcohol for 1-3 minutes or until background is completely decolorized.
9. Wash slides well in running tap water.
10. Counterstain in Nuclear Fast Red Stain, Kernechtrot (1255) for 5 minutes.
11. Wash in running tap water for 5 minutes.
12. Dehydrate in two changes each of 95% and 100% ethyl alcohol. Clear in three changes of xylene, 10 dips each; coverslip with compatible mounting medium.

**RESULTS:**

- Elastic fibers: Blue
- Copper-associated protein: Blue (if present in liver sections)
- Nuclei and cytoplasm: Red

**PROCEDURE NOTES:**

1. Drain staining rack/slides after each step to prevent solution carry over.
2. For best results, overnight staining at room temperature in Victoria Blue Stain, Alcoholic is recommended.
3. If using a xylene substitute, closely follow the manufacturer’s recommendations for deparaffinization and clearing steps.

**REFERENCES:**

5. Modifications developed by Newcomer Supply Laboratory.

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