D-252  MAXIMOW'S METHOD FOR BONE MARROW

Fixation:  Zenker-Formol
Sections:  Paraffin at 6 microns.

Staining:
1. Deparaffinize and hydrate to distilled water.
2. **Mayer's Hematoxylin** (D-252-1) for 15 minutes. Wash in tepid tap water for 15 minutes.
3. Stain in working solution overnight. Prepare working solution fresh each time as follows.
   - **Eosin Y, 0.1%, Aqueous** (D-252-2) 10 ml
   - Triple distilled water or **Phosphate Buffer** pH 6.8-7.0 (D-252-7) 100 ml
   - **Azure II, 0.1%, Aqueous** (D-252-3) 10 ml
   - Glacial Acetic Acid 2 drops
4. Differentiate in 95% alcohol until blue ceases to come out into alcohol and erythrocytes and collagen are pink.
5. Dehydrate in absolute alcohol, clear in **Xylene** (C-120), two changes each.
6. Mount with **Permount** (M-18).

Results:

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Nuclei</td>
<td>Blue</td>
</tr>
<tr>
<td>Basophile leucocyte, mast cell granules</td>
<td>Purple to Violet</td>
</tr>
<tr>
<td>Cartilage</td>
<td>Purple</td>
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<tr>
<td>Erythrocytes, eosinophile granules</td>
<td>Pink</td>
</tr>
<tr>
<td>Cytoplasm</td>
<td>Blue to Pink</td>
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</tbody>
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References: