F-401, DANE'S METHOD FOR PREKERATIN, KERATIN AND MUCIN

Fixation:  10% Buffered Neutral Formalin (F-113)

Sections:  Paraffin @ 6 microns

Staining:

1. Deparaffinize and hydrate to distilled water.

2. **Mayer's Hematoxylin** (F-401-4) for 10 minutes. Blue in running tap water for 10 minutes. Rinse in distilled water.

3. **Phloxine B Solution, 1%** (F-401-1) for 3 minutes. Wash in running tap water to remove excess stain. Rinse in distilled water.

4. **Alcian Blue** (F-401-2) for 5 minutes. Wash in tap water for 2 minutes. Rinse in distilled water.

5. **Orange G Solution** (F-401-3) for 13 minutes.

6. Transfer slides to 95% alcohol, two changes, five dips each; absolute alcohol, two changes, fifteen dips each.

7. Clear in **Xylene** (C-120). Mount.

Stain results:

<table>
<thead>
<tr>
<th>Mucopolysaccharides</th>
<th>Blue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prekeratin and Keratin</td>
<td>Orange to Red</td>
</tr>
<tr>
<td>Nuclei</td>
<td>Brown</td>
</tr>
</tbody>
</table>

References:

AFIP Manual of Histological Staining Methods, 3rd ed., ed. L. Luna: