F-400 AYOUB-SHKLAR METHOD FOR KERATIN & PREKERATIN

FIXATION: Buffered Neutral Formalin, 10% (F—113)

SECTIONS: Paraffin @ 6 microns

STAINING:

1. Deparaffinize and hydrate to distilled water.
2. Acid Fuchsin Solution (F-400-1) for 3 minutes.
3. Transfer slides directly to Aniline Blue-Orange G Solution (F-400-2) for 45 minutes.
4. Transfer slides directly to 95% alcohol for three changes.
5. Dehydrate with absolute alcohol and clear in Xylene (C-120), two changes each.

STAINING RESULTS:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keratin</td>
<td>Brilliant Red</td>
</tr>
<tr>
<td>Stratified squamous epithelium</td>
<td>Gray</td>
</tr>
<tr>
<td>Stratum spinosum, upper area</td>
<td>Orange</td>
</tr>
<tr>
<td>Illustrating prekeratin-like</td>
<td>Deep Blue</td>
</tr>
<tr>
<td>Substances</td>
<td>Deep Red</td>
</tr>
<tr>
<td>Connective Tissue</td>
<td>Deep Red</td>
</tr>
<tr>
<td>Erythrocytes</td>
<td>Deep Red</td>
</tr>
</tbody>
</table>

REFERENCES:

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