Field's Stain A is used as staining solution for blood films for Spirochaetes, Protozoa and other purposes.

**Composition**

**Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene blue</td>
<td>1.300 gm</td>
</tr>
<tr>
<td>Potassium phosphate</td>
<td>6.250 gm</td>
</tr>
<tr>
<td>Disodium hydrogen phosphate</td>
<td>5.000 gm</td>
</tr>
<tr>
<td>Fresh distilled water</td>
<td>550.000 ml</td>
</tr>
</tbody>
</table>

**Formula adjusted, standardized to suit performance parameters**

**Directions**

1) Dry the blood film and immerse in methanol for 2-3 minutes.
2) Blow off with Fields Stain A (S008) for 2-3 seconds.
3) Wash it with distilled water, and again blow with Fields Stain B (S009) for 2-3 seconds and wash with distilled water.
4) Dry it and observe under microscope.

**Principle And Interpretation**

Field Stains contain methylene blue and eosin. These basic and acidic dyes induce multiple colours when applied to cells. The fixative, methanol does not allow any further change in slide. The basic component of white cells (cytoplasm) is stained by acidic dye and they are described as eosinophilic or acidophilic. The acidic component (nucleus with nuclei acid) takes blue to purple shades of the basic dye and are called basophilic. The neutral component of the cells are stained by both the dyes. This staining method is used for screening thick films of malarial parasites.

**Quality Control**

**Appearance**

Dark violet coloured solution.

**Clarity**

Clear without any particles.

**Microscopic Examination**

Blood staining is carried out where Field's Stain A is used as one of the stains and staining characteristic is observed under microscope.

**Results**

- Nuclei: blue
- Neutrophilic granules: lilac
- Eosinophilic granules: orange
- Red cells: pink

**Storage and Shelf Life**

Store below 30°C in tightly closed container and away from bright light. Use before expiry date on label.

Revision: 1/2015

Disclaimer:

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