Eosin, 2% W/V

Eosin, 2% w/v is used as solution for monochrome staining of bacteria and most commonly used as counterstain for hematoxylin.

**Composition**

**Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eosin-Y</td>
<td>2.000 gm</td>
</tr>
<tr>
<td>Distilled water</td>
<td>100.000 ml</td>
</tr>
</tbody>
</table>

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

**Directions**

1) Prepare a smear on a clear, dry glass slide.
2) Allow it to air dry and fix it with gentle heat.
3) Flood the slide with Eosin (S007).
4) Allow the stain to be in contact with the smear for 2-3 minutes or heat the preparation for less than half a minute.
5) Wash in slow-running water.
6) Blot dry and examine under oil immersion objective.

**Principle And Interpretation**

Eosin is tetra bromofluorescein (a substituted xanthene), a red acidic dye and fluorochrome. The dye is very soluble in ethyl alcohol and also used for the staining of cytoplasm. Eosin Y is the most commonly used counterstain for hematoxylin.

**Quality Control**

**Appearance**

Reddish orange coloured liquid.

**Clarity**

Clear with no insoluble particles.

**Microscopic Examination**

Hematoxylin Eosin staining is carried out where Eosin is used as one of the stains and staining characteristics is observed under microscope using oil immersion lens.

**Results**

- **Nuclei**: Blue coloured
- **Cytoplasm**: Pink coloured

**Storage and Shelf Life**

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

**Reference**


**Disclaimer**

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