Neutral Red Staining Solution

**Cat.No.:** E607312  
**Package:** 100 mL

**Description**
Neutral Red is a weak cationic azine dye that is used extensively as a nuclear stain in a variety of biological stain applications. This Neutral Red Staining Solution is can also be used as a counterstain in combination with other dyes. The Staining Solution is suitable for tissue or cells fixed, not for living cells.

Neutral Red is a pH indicator as well, changing color from red to yellow over the pH range 6.8~8.0.

**Kit Components**

<table>
<thead>
<tr>
<th>Component</th>
<th>E607312</th>
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</thead>
<tbody>
<tr>
<td>Component A: Neutral red Staining Solution (1 g/L)</td>
<td>100 mL</td>
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<tr>
<td>Protocol</td>
<td>1</td>
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</tbody>
</table>

**Storage**

Store at 2~8°C and avoid exposure to light for 12 months.

**Procedure**

1. **Sample preparation:**
   a. For cells in culture: Fix cells with 4% paraformaldehyde for 10~20 minutes, and rinse twice with distilled water for 2~5 minutes.
   b. For frozen sections: Rinse the sections with distilled water for 2~5 minutes.
   c. For paraffin sections:
      - Dewax and rehydrate tissue section according to standard protocols.
      - Rinse with distilled water for 2 minutes.

2. **Neutral Red staining:**
   - Add **Neutral Red Staining Solution** (Component A) and incubate for 2~10 minutes at room temperature.

   **Note:**
   Each cell line should be evaluated on an individual basis to determine the optimal time to stain depending upon fixation and cell line.

3. Wash twice with distilled water, 2 minutes each.
   - Optional: after wash with distilled water, sample can be dehydrated in alcohol and cleared in xylene and mounted according to standard protocol.

4. Samples can be observed under microscopy.

**WARNING!**

Before use, please read this protocol carefully. For your safety, please use gloves, goggles or other protective measures.

This kit is for R&D use only, not for drug, household or other uses.