**Neutralization Buffer A**

*(For transfer to uncharged membranes)*

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Code</th>
<th>Kit Packing</th>
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<tbody>
<tr>
<td>Neutralization Buffer A</td>
<td>ML034-100ML</td>
<td>100 ml</td>
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<tr>
<td>(For transfer to uncharged membranes)</td>
<td>ML034-500ML</td>
<td>500 ml</td>
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**Introduction:** Neutralization Buffer A is used for transfer of DNA bands from agarose gel to uncharged membrane (e.g. nitrocellulose) during Southern hybridization procedure. This buffer lowers the pH of DNA during the blotting process. If the DNA gel is depurinated prior to alkaline or nonalkaline transfer, exclusion of the neutralization step prior to transfer can reduce signal. Without a neutralization step, depurination continues in the gel.

**Description:** Southern blotting, first devised by E. M. Southern in 1975, is one of the prime techniques in molecular biology. This procedure involves the transfer of DNA bands, usually restriction fragments, from agarose gel to a nitrocellulose or nylon membrane. If a nitrocellulose membrane is being used then the agarose gel is treated with Neutralization Buffer A after the denaturing step. This treatment is essential as DNA does not bind to nitrocellulose at a pH of greater than 9.0 and this Tris-containing buffer brings the pH back to proper binding environment.

**Application:** Neutralization Buffer A is mainly used to neutralize DNA agarose gels after the DNA denaturation in base step before transfer to nitocellulose membranes.

**Composition:** Neutralization Buffer A is composed of 1M Tris and 1.5 M Sodium chloride and the pH is adjusted to 7.4.

**Properties:**
- **Appearance:** Colorless solution
- **Clarity:** Clear and free of particles
- **pH:** 7.3 - 7.5
- **DNase & RNase:** None detected
- **Bioburden:** None detected
- **Suitability test:** This solution has been tested and is suitable for use in Southern blotting procedure.

**Storage conditions:** Neutralization Buffer A has to be stored at room temperature (15 - 25 °C).

**Technical Assistance**

At HiMedia we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail at mb@himedialabs.com.