

**Neutralization Buffer A**  
(For transfer to uncharged membranes)

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
Neutralization Buffer A	ML034-100ML	100 ml
(For transfer to uncharged membranes)	ML034-500ML	500 ml

**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
- Sterility : No bacterial or fungal growth is observed after 14 days of incubation as per USP specifications.
- Suitability test : This solution has been tested and is suitable for use in Southern blotting Experiments.

Please refer disclaimer Overleaf.

### Storage conditions:

Neutralization Buffer A has to be stored at room temperature (15 - 25 °C). Under recommended condition, the reagent is stable for 12 months.

### Warning and Precautions

Not for Medicinal Use. Read the SDS carefully before beginning the protocol. Wear protective gloves/protective clothing/eye protection/face protection. Follow good clinical laboratory practices while handling clinical samples. Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.

### Performance and Evaluation

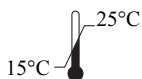
Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

### Safety Information

The Neutralization Buffer A is for laboratory use only, not for drug, household or other uses. Take appropriate laboratory safety measures and wear gloves and safety goggles when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

### 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](mailto:mb@himedialabs.com).



Storage temperature



Do not use if package is damaged



HiMedia Laboratories Private Limited,  
Reg. Off: Plot No. C-40, Road No. 21Y,  
MIDC, Wagle Industrial Area, Thane,  
(West) 400604, Maharashtra, INDIA.  
Web: [www.himedialabs.com](http://www.himedialabs.com)



01/2025

PIML034\_0/0122

ML034-02

### Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

HiMedia Laboratories Pvt. Ltd. Reg.office : Plot No. C-40, Road No. 21Y, MIDC, Wagle Industrial Area, Thane, (West) 400604, Maharashtra, INDIA.  
Customer Care No.: 00-91-22-6116 9797 Tel: 00-91-22-6147 1919, 6903 4800 Email: [techhelp@himedialabs.com](mailto:techhelp@himedialabs.com) Website: [www.himedialabs.com](http://www.himedialabs.com)