

Neutralization Buffer B
(For transfer to nylon membranes)

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
Neutralization Buffer B	ML035-100ML	100 ml
(For transfer to nylon membranes)	ML035-500ML	500 ml

Introduction:

Neutralization Buffer B is mainly used during Southern blotting procedure where DNA is transferred from agarose gel to positively charged nylon membranes. This buffer lowers the pH of DNA during the blotting process and comes as a ready to use solution and can be directly used.

Description:

Southern blotting has been one of the foundation of DNA analysis since its first description by E.M. Southern in 1975. Originally nitrocellulose membranes were used but their fragility prompted to search for alternative types of support matrix and as a result nylon membranes were implemented. Neutralization Buffer B is used during Southern hybridization to neutralize DNA agarose gels after the DNA denaturation before transfer to nylon membranes. During denaturation step double stranded DNAs are unzipped to give single-stranded DNAs which are suitable for hybridization. The main objective of neutralization solution is to bring pH below 9 as at higher pH, DNA does not bind to the membrane.

Application:

Neutralization Buffer B is mainly used to neutralize DNA agarose gels after the DNA denaturation in base step before transfer to nylon membranes.

Composition:

Neutralization Buffer B is composed of 0.5M Tris and 1M Sodium chloride and the pH is adjusted to 7.2.

Properties:

- Appearance : Colorless solution
- Clarity : Clear and free of particles
- pH : 7.1 - 7.3
- 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 blotting experiments

Please refer disclaimer Overleaf.

Storage conditions:

Neutralization Buffer B 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

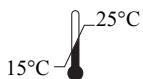
Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

Safety Information

The Neutralization Buffer B 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.



Storage temperature



Do not use if package is damaged



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