BIO BASIC
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Product information

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TBE Buffer (Tris-Borate-EDTA)

Catalog #: A0014 / A0024 / A0026
Size: 1 L / 4 L / 4L
Storage: RT*

*: Store at room temperature and protect from moisture.

Product Description:

1X TBE Solution contains 0.089 M Tris Base, 0.089 M Borate Acid, and 0.002 M EDTA TBE buffer is commonly used in all DNA electrophoresis applications (both for acrylamide and for agarose gels).

In general, TBE buffer offers better resolution of 0.1 to 3 kb fragments; whereas, TAE (Tris-Acetate-EDTA) buffer provides better resolution of fragments greater than 4 kb. Furthermore, TBE is better suited for high-voltage (>150V) electrophoresis because of its higher buffering capacity and lower conductivity than TAE1.

Bio Basic Inc. offers TBE in a number of different formats. 10X concentrate liquid can be used to easily prepare a 1X working solution by diluting with distilled, deionized water. 10X TBE Powder allows for the stable storage of the pre-mixed powder form that can be dissolved in distilled, deionized water to yield 1 liter each of 10X TBE buffer solution.

Ordering Information:

Product Code & Size
A0014: TBE buffer 10X solution, 1 L
A0026: TBE buffer 10X solution, 4 L
A0024: TBE 10X Premixed Powder, 1PK. Total weight 681.08g, containing 431.3g of Tirs, 220g of Boric Acid, 29.78g of EDTA.

Instructions:

A0024 TBE 10X Premixed Powder:
Dissolve 1pk powder in 4L of distilled deionized water at 25°C or above to yield 4L of 10X TBE stock.

Other Notes:

TBE buffer 10x solution is prone to precipitation over time. Precipitation generally will not adversely affect performance.

Reference:
1. Please note if crystallization or precipitation does occur, additional filtration may be necessary. The solution should be filtered through a 0.2 µm cellulose acetate or cellulose nitrate filter.
Mayeda, A. and Krainer, A. BioTechniques, 1991. p. 10.2, 1820.

MUST USE ENTIRE CONTENTS FROM THE CONTAINER PER PREPARATION. The powders are mixed however not blended.