



PRODUCT INFORMATION

TBE
Tris-Borate-EDTA
(A0024, A0026)

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 liquid concentrate 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

TBE 10X Liquid Concentrate A0026 4 L

TBE 10X Powder A0024 1PK

Instructions:

A0024 TBE 10X Powder

Dissolve 1pk powder in 4L of distilled deionized water to yield 4L of 10X TBE stock.

Total weight of 1PK is 681.08g containing 431.3g of Tris, 220g of Boric Acid, 29.78g of EDTA.

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.