

10X TBE Buffer (Tris-Borate-EDTA)

Cat No. BF-M-TBE-10X



DESCRIPTION

TBE buffer (Tris-Borate-EDTA), 10X solution 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 TAE. 1X TBE Solution contains 0.089 M Tris Base, 0.089 M Borate Acid, and 0.002 M EDTA. 10X solution of TBE buffer is prone to precipitation over time. Precipitation generally will not adversely affect performance.

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. MOLEQULE-ON TBE Buffer is free from DNase, RNase, and Protease activity.

COMPOSITION

A single-strength (1X) solution contains 0.089M Tris base, 0.089M Borate and 0.002M EDTA.

PREPARATION OF 1X WORKING SOLUTION

To prepare a 1X solution of TBE Buffer, mix 100ml of 10X TBE Solution with 900ml ultrapure water.

STORAGE

Store at 18-25°C.

For laboratory use only. Not intended for any animal or human therapeutic or diagnostic uses.