

# 10x TBE Buffer

Component	AG19
10x TBE Buffer	250 ml



blirt®

DNA  
GDAŃSK

## 10x TBE Buffer

TBE (Tris-borate-EDTA) is a buffer used for the electrophoresis of nucleic acids. Thanks to its higher buffering capacity and lower electric conductivity in comparison to a TAE buffer, the TBE buffer can be used for electrophoresis in both agarose and polyacrylamide gels. It is more suitable for the separation of smaller DNA fragments (< 500 bp) such as PCR products or restriction fragments. If an excision of a gel slice containing a DNA fragment, known as a DNA gel-out, is required, the use of the TAE buffer is recommended. The TBE buffer contains borate, which is a strong inhibitor against such enzymes as DNA ligase or DNA polymerase.

### Applications

- As a running buffer for the electrophoresis of nucleic acids in agarose and polyacrylamide gels
- Preparation of agarose and polyacrylamide gels
- High resolution electrophoresis of small DNA fragments

### Additional information

#### Formulation

0.89 M Tris (pH 8.3), 0.89 M boric acid, 20 mM EDTA

#### Quality control

The TBE buffer has been tested in electrophoretic runs utilising agarose and polyacrylamide gels. The absence of nucleases has been confirmed by the relevant QC procedures.

#### Storage conditions

Store at +4°C or room temperature.

#### Shipping conditions

Shipping at room temperature.

#### Usage

- Prior to use, the stock solution provided should be diluted to the working solution strength.
- In order to obtain a working solution (1x concentrated), dilute one part of the 10x TBE Buffer stock solution provided in 9 parts of distilled water; for example, add 450 ml of distilled water for every 50 ml of the stock solution.
- The preparation of a fresh working solution before each electrophoresis run is recommended.

 For research use only

Date of purchase

Warranty

6 months from the date of purchase when stored at +4°C