

Technical Data Sheet

TBE buffer (10X)

for electrophoresis

Order number: 1303

TBE buffer (10X) is a 10X concentrated aqueous solution mainly used as a running buffer for DNA and RNA in polyacrylamide and agarose gel electrophoresis. TBE buffer (10X) is a clear and colorless solution with a pH of 8.3. It is diluted to 1X or 0.5X before use (with molecular biology grade water).

Composition:

Tris:	107.81 g/L (0.89 M)
Boric acid:	55.03 g/L (0.89 M)
EDTA-Na ₂ · 2H ₂ O:	7.44 g/L (0.02 M)

Application

TBE (Tris/Borate/EDTA) buffer is commonly used in nucleic acid electrophoresis. Under slightly basic conditions it keeps the DNA deprotonated, water-soluble, and protected from degradation.

For electrophoresis, dilute TBE buffer (10X) to obtain a 1X TBE running buffer containing 89 mM Tris-borate and 2 mM EDTA.

Storage

Store at RT.

Related products

1110	Agarose Basic for biochemistry
1057	Agarose low EEO for molecular biology
1287	DNA Marker 1 kb (lyophilized) for biochemistry
1296	DNA Marker 100 bp (lyophilized) for biochemistry
1133	dsDNA-Stain nontoX for molecular biology
1254	Ethidium bromide - Solution 0.07 % dropping bottle for electrophoresis
1280	Glycerol anhydrous for molecular biology
1255	TAE buffer (50X) for electrophoresis

