

Technical Data Sheet

TAE buffer (50X)

for electrophoresis

Order number: 1255

TAE buffer (50X) is a 50X concentrated aqueous solution mainly used in agarose gel electrophoresis for separation of nucleic acids. TAE buffer (50X) is a clear and colorless solution with a pH of 8.5. It is diluted to 1X or 0.5X before use (with molecular biology grade water).

Composition:

Tris:	242.28 g/L (2 M)
Acetic acid glacial:	60.05 g/L (1 M)
EDTA-Na ₂ · 2H ₂ O:	18.61 g/L (0.05 M)

Application

TAE (Tris/Acetate/EDTA) buffer is used as a running buffer in nucleic acid electrophoresis. It is also used as buffer for the preparation of agarose gels.

Dilute TAE buffer (50X) with water molecular biology grade to obtain a 1X TAE buffer solution containing 40 mM Tris, 20 mM acetate, and 1 mM EDTA.

Storage

Store at RT.

Related products

1110	Agarose Basic for biochemistry
1057	Agarose low EEO for molecular biology
1531	DNA Marker 1 kb (lyophilized) for molecular biology
1530	DNA Marker 100 bp (lyophilized) for molecular biology
1133	dsDNA-Stain nontoX for molecular biology
1254	Ethidium bromide - Solution 0.07 % dropping bottle for electrophoresis
1280	Glycerol anhydrous for molecular biology
1303	TBE buffer (10X) for electrophoresis

