

Specification

TBE buffer (5X)

A1417

Physical Description:	Liquid
Product Code:	A1417
Product Name:	TBE buffer (5X)
Specifications:	<p>pH (20°C; H₂O): 8.3 ± 0.2</p> <p>Composition:</p> <p>Boric Acid: 27.52 g/L (0.445 M)</p> <p>EDTA-Na₂ · 2H₂O: 3.72 g/L (0.01 M)</p> <p>Tris: 53.91 g/L (0.445 M)</p>
WGK:	1
Storage:	RT
CS:	38220000
Comment	<p>TBE buffer is the electrophoresis buffer for polyacrylamide gels and agarose gels. TBE has a higher buffering capacity than TAE. Normally, it is applied in a concentration of 1X for polyacrylamide gels and 0.5X for agarose gels and 'band shifts' (gel mobility shift assay). The absorption spectrum of 1X TBE buffer shows no significant absorption in the wavelength range of SYBR® Green applications. TBE is prepared as a 10X or 5X concentrate and stored at room temperature. During long-term storage, a precipitate may form in the 10X concentrate. Filtration (0.22 µm) may slow down the formation of the precipitate.</p>
Bibliography	<p>(1)Peacock, A.C. & Dingman, C.W. (1968) <i>Biochemistry</i> 7, 668-674 Molecular weight estimation and separation of ribonucleic acid by electrophoresis in Agarose-Acrylamide composite gels. (2)Ogden, R.C. & Adams, D.A. (1987) <i>Methods Enzymol.</i> 152, 61-87 Electrophoresis in agarose and acrylamide gels. (3)Sambrook, J. & Russell, D.W. (2001) <i>Molecular Cloning: A Laboratory Manual</i>, 3rd Edition. Page A1.17. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York. (4)Ausubel, F.A., Brent, R., Kingston, R.E., Moore, D.D., Seidman, J.G., Smith, J.A. & Struhl, K. (eds.) (2001) <i>Current Protocols in Molecular Biology</i>, page A.2.5 (Suppl. 40) Greene Publishing & Wiley-Interscience, New York.</p>