

PRODUCT INFORMATION

TAE Buffer¹ (50x) molecular biology grade Cat. No. 42549

Product description:

General Electrophoresis running buffer in aqueous solution, 50x concentrate.
TAE buffer is used for electrophoresis of nucleic acids. It has a lower buffer capacity than TBE, however linear dsDNA tends to run faster in TAE than in TBE buffer. TAE buffer provides best results with supercoiled DNA and better resolution of fragments >4 kb.

Composition	Components	Concentration
	TRIS	2.0 M
	EDTA-Na ₂ -salt	0.05 M
	Acetic acid	1.0 M
	pH 8.3 ± 0.2	

Storage Recommended storage temperature is +15 °C – +30 °C.

Working solution:

To prepare 1 l 1x running buffer:

To 20 ml 50x concentrate add 980 ml deionized water.

Concentration of components in 1x solution:

40 mM TRIS
1 mM EDTA-Na₂-salt
20 mM Acetic acid

¹Sambrook, J., Fritsch, E.F., Maniatis T. (1989), Molecular Cloning: a laboratory manual, 2nd. ed., B.23, p. 6.7, Cold Spring Harbor, N. Y.: Cold Spring Harbor Laboratories