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Thermo Scientific™

TBE Buffer (Tris-borate-EDTA) (10X)

Thermo Scientific 10X TBE Buffer (Tris-borate-EDTA) is the most commonly used buffer for DNA and RNA polyacrylamide gel electrophoresis. [Read more](#)

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Catalog Number	Quantity
B52	1 L

alog number B52



Quantity:

1 L

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- Product Overview

FAQ

Documents

Thermo Scientific 10X TBE Buffer (Tris-borate-EDTA) is the most commonly used buffer for DNA and RNA polyacrylamide gel electrophoresis. TBE is used with non-denaturing or denaturing (7 M urea) gels. It is also routinely used for DNA automated sequencing gel. TBE can also be used for agarose gels, but is not recommended for preparative gels for recovery of nucleic acids. Since borate in TBE buffer is a strong inhibitor for many enzymes, TAE buffer (Tris Acetate-EDTA buffer, 10X powder, sc-296647) is recommended when looking at enzymatic applications for the DNA sample.

Applications

- Electrophoresis of nucleic acids in agarose and polyacrylamide gels
- Used both as a running buffer and as a gel preparation buffer
- Filtered through a 0.22 µm membrane
- Recommended for electrophoresis of RNA and DNA fragments smaller than 1500 bp

Note

Double-stranded linear nucleic acid molecules migrate about 10% slower in TBE buffer than in [TAE buffer](#).

For Research Use Only. Not for use in diagnostic procedures.

Specifications	
Product Type	TBE Buffer
Quantity	1 L
Concentration	10X
Unit Size	Each

Frequently asked questions (FAQs)



Also, the acetate ion in TAE migrates faster than the borate ion in TBE buffer, and can create fuzzy bands. It is possible to try soaking the TBE gel (run in TBE buffer) in the TAE buffer following the run and then eluting from that. Since nucleic acids diffuse out of the gel relatively slowly, this may work.

Find additional tips, troubleshooting help, and resources within our [Nucleic Acid Purification and Analysis Support Center](#).

Documents & Downloads

Certificates

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Lot #	Certificate Type	Date	Catalog Number(s)
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Safety Data Sheets



Product Information

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[User Guide: General Recommendations for DNA Electrophoresis](#)[User Guide: Denaturing Polyacrylamide/Urea Gels in TBE Buffer](#)

Scientific Resources

Posters

[Poster: Five simple wins to keep your DNA electrophoresis on track](#)