

# Crystal 50x TAE Buffer

**Exp. Date:** See pouch    **Product**    **Catalog number**  
**Batch No.:** See pouch    50x TAE Buffer    BIO-37103: 5 x 1000ml pouches



A Meridian Life Science® Company

## Storage and Stability:

The Crystal 50x TAE Buffer can be stored at room temperature for up to 3 years from the date of purchase. Once dissolved in water, the buffer can be stored at room temperature for 1 year.

## Shipping:

Crystal 50x TAE Buffer is shipped at ambient temperature

## Quality control:

Crystal buffers undergo extensive and stringent QC assays to guarantee batch-to-batch reproducibility.

## Composition

2.0M Tris-Acetate, 0.05M EDTA, pH 8.3 at 25°C, when dissolved in deionized water and made up to 1000ml.

## Safety precautions:

May cause Irritation to eyes, respiratory system and skin. Please refer to the material safety data sheet for further information.

## Notes:

1. This product insert is a declaration of analysis at the time of manufacture.
2. Research Use Only.

## Features:

- Reagents of the highest purity and quality
- Exactly pre-weighed powder in sealed pouches
- Ideal to standardize DNA electrophoresis
- Dissolve and use in minutes
- RNase and DNase free

## Applications:

- Agarose gel electrophoresis of long nucleic acid fragments (>1500bp)
- Native and denaturing RNA analysis
- For Southern blotting

## Description

Crystal 50x TAE buffer is a Tris-Acetate-EDTA electrophoresis running buffer made from reagents with the highest purity and delivered in convenient ready-to-use sealed pouches. Each pouch contains a pre-determined amount of components, providing increased buffer precision. There is no need to spend time in the laboratory weighing and handling the loose components for the buffers. Simply dissolve the contents of each the pouch in deionized water to the recommended volume and the buffer is ready for use without any further preparation.

Crystal 50x TAE Buffer is recommended for large fragments (above 1500bp) and complex mixtures of large genomic DNA. TAE has a lower buffering capacity than TBE, however linear dsDNA tends to migrate faster in TAE than in TBE. Crystal 50x TAE Buffer is also used in non-denaturing RNA agarose gel electrophoresis. Southern blots are generally derived from gels prepared and run in TAE buffers. TAE buffers are considered better for gel purification since acetate is less inhibitory than borate for downstream applications.

Bioline Crystal buffers undergo extensive and stringent QC assays and the guaranteed batch-to-batch reproducibility provides consistent results.

## Protocol

Dissolve contents of one pouch in deionized water and make up the volume to 1000ml to obtain a 50x TAE buffer solution. For agarose gel electrophoresis dilute 50x TAE solution to a working concentration of 1x.

Optional: The buffer can be filtered through a 0.20µm filter to prevent or delay the formation of precipitates.

## Associated products:

Product Name	Pack Size	Catalog No.
HyperLadder™ I	100 Lanes	BIO-33053
Agarose	100g	BIO-41026
Crystal TBE Reagent	10 Pouches	BIO-37104

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