



# Buffer TAE, 50x

For preparation of agarose gels and use as an electrophoresis running buffer

## Product Contents

<b>Buffer TAE, 50x</b>	
<b>Catalog no.</b>	<b>129237</b>
Buffer TAE, 50x	5 liters
Product Sheet	1

## Storage Conditions

Buffer TAE, 50x should be stored at room temperature.

## Product Description

Buffer TAE, 50x is suitable for the preparation of agarose gels and as an electrophoresis running buffer for the separation of nucleic acids in agarose or polyacrylamide gels. In addition, this product is ideal for use in all other molecular biology techniques where Tris·acetate–EDTA buffer is required. Buffer TAE, 50x is free of nuclease activity and is provided in convenient 5-liter tap-containers. Buffer TAE, 50x is composed of 2 M Tris·acetate, 0.05 M EDTA, pH 8.3.

## Quality Control

In accordance with QIAGEN's ISO-certified Quality Management System, each lot of Buffer TAE, 50x is tested against predetermined specifications to ensure consistent product quality.

## Product Use Limitations

Buffer TAE, 50x is intended for research use. No claim or representation is intended to provide information for the diagnosis, prevention, or treatment of a disease.

## Safety Information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate material safety data sheets (MSDSs). These are available online in convenient and compact PDF format at [www.qiagen.com/ts/msds.asp](http://www.qiagen.com/ts/msds.asp) where you can find, view, and print the MSDS for each QIAGEN kit and kit component.

The following risk and safety phrases apply to Buffer TAE.

Contains acetic acid and tris(hydroxymethyl)-aminomethane: irritant. Risk and safety phrases\*: R36/38. S13-26-36/37/39-46

## 24-hour emergency information

Emergency medical information in English, French, and German can be obtained 24 hours a day from:

Poison Information Center Mainz, Germany

Tel: +49-6131-19240

\* R36/38: Irritating to eyes and skin. S13: Keep away from food, drink, and animal feedingstuffs. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves, and eye/face protection. S46: If swallowed, seek medical advice immediately and show container or label.

## Procedure

For gel electrophoresis, Buffer TAE, 50x should be diluted to a working concentration of 1x. Buffer TAE should be replaced after each electrophoresis run as the buffering capacity of the TAE is rapidly exhausted, lowering the mobility of the nucleic acids in the gel (1).

## Reference

1. Sambrook, J. and Russell, D.W. (2001) Molecular cloning: a laboratory manual, 3rd ed., Cold Spring Harbour Laboratory Press.

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