

TAE Buffer, Lyophilized powder

Cat #: C-BSM17201

Size: 1L/pouch*50

Storage: Store at room temperature for 3 years



Product Introduction

TAE is a white, instant-dissolving powder composed of Tris-acetate and EDTA-2Na. Each packet of TAE can be reconstituted with 1 L of 1× TAE buffer, offering convenient and easy-to-use operational benefits. The Tris-acetate concentration in 1× TAE buffer is 40 mM, while the concentration of EDTA-2Na is 1 mM.

TAE is a widely utilized nucleic acid electrophoresis buffer in the field of biology, primarily employed for agarose gel electrophoresis of DNA. When TAE is used as the electrophoresis buffer, double-stranded linear DNA fragments exhibit relatively fast migration rates. For fragments larger than 13 kb, it is generally recommended to use TAE for electrophoretic separation. TAE is also suitable for DNA fragment recovery. However, due to its limited buffering capacity, it is not recommended for prolonged electrophoresis, such as overnight runs.

Components

- Tris-acetate : 40 mM
- EDTA-2Na : 1 mM

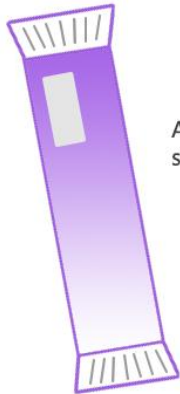
Instructions for use:

1. Measure approximately 600 ml of distilled water and add it to a beaker. Place a magnetic stir bar in the beaker.
2. Position the beaker on a magnetic stirrer and slowly add the entire contents of 1 packet of TAE powder. Stir the solution until it is completely dissolved.
3. Add distilled water to the TAE solution from step 2 to bring the total volume to 1 L, resulting in a 1× concentration.

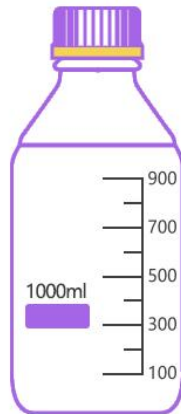
* Upon reconstitution, the pH of the 1× solution is 8.3±0.1 at a temperature of 25°C

Illustration for reconstitution:

1 Pouch of lyophilized powder



1 L
1 x Buffer



Add water and stir to volume

