



## **1xTAE Buffer powder ,1L**

**Product Number: BF-TAE-1X-1L-PD**

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### **Shipping and Storage**

Transport at room temperature. Store at room temperature for 24 months.

### **Description**

TAE is a widely used nucleic acid electrophoresis buffer in biology, which is mainly used for DNA agarose gel electrophoresis. When using TAE as the electrophoresis buffer, the migration rate of double stranded linear DNA is faster during electrophoresis. When the fragment is larger than 13 kb, it is generally recommended to use TAE for electrophoretic separation. TAE is suitable for DNA fragment recovery, but due to its small buffer capacity, it is not recommended for long-term electrophoresis (such as overnight).

When the resolution requirement is not high, both TAE and TBE can be used; When the resolution requirement is high, a lower concentration of gel is beneficial for improving the resolution of high molecular weight nucleic acids, and TAE should be used. Conversely, a higher concentration of gel is beneficial for improving the resolution of low molecular weight nucleic acids, and TBE should be used.

TAE is a white powder, and each bag of TAE powder can be prepared with 1L1XTAE buffer solution. The concentration of Tris acetate in 1XTAE buffer is 40 mM, and the concentration of EDTA-2Na is 1 mM.

This product is provided in powder form and can be dissolved directly in deionized water during the experiment. It is easy to operate and use. One step approach, saving time, avoiding weighing and waste, preventing the generation of floating particles, and protecting the health of users.

### **Protocol**

1. Measure about 600ML of distilled water and add it to a beaker, then place a magnetic stirrer in the beaker.
2. Place the beaker on a magnetic stirrer and slowly add the entire contents of 1 pack of TAE powder, stirring the solution until completely dissolved.
3. Add distilled water to the TAE solution in step 2 and dilute to 1L, which is 1X.

### **Note**

1. Only for scientific research by professionals, not for clinical diagnosis or treatment, not for food or medicine, and not for storage in ordinary residential buildings.
2. For your safety and health, please wear personal protective equipment and clothing when operating.