

1x TBE Buffer powder,1L/pouch

Product Number: BF-TBE-1X-1L-PD

Shipping and Storage

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

Description

TBE is a widely used nucleic acid electrophoresis buffer in biology, mainly used for DNA agarose gel electrophoresis and PAGE gel electrophoresis. TBE has strong buffering capacity and is more effective in separating fragments smaller than 1kb for electrophoresis. It is also suitable for longer periods of electrophoresis. When TBE is used for agarose gel, it is easy to cause high electroosmosis, and the recovery rate of DNA fragments is reduced due to the formation of noncovalently bound tetrahydroxyborate complexes by interaction with agarose. Therefore, it is not recommended to use TBE for gel recovery of DNA fragments.

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. When the resolution requirement is high, a higher concentration of gel is beneficial for improving the resolution of low molecular weight nucleic acids, and TBE should be used.

TBE is a white powder, and each bag of TBE powder can be prepared with 1L1XTBE buffer solution. The concentration of Tris borate in 1XTBE buffer is 89 mM, and the concentration of EDTA-2Na is 2 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 TBE powder, stirring the solution until completely dissolved.
3. Add distilled water to the TBE 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.