

Instant TAE Buffer

Catalog Number: EXNA070



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For Research Use Only. Not Intended for Diagnostic or Therapeutic Use.

Product Description

Instant TAE Buffer simplifies preparation of Tris-acetate-EDTA (TAE) buffer with easy to dissolve powder granules to prepare a 1 Liter, 1X working solution. It does not require additional calculations or pH adjustments to help reduce errors and maintain consistent buffer preparation.

The 1X solution is 40 mM Tris-acetate and 1 mM EDTA-2Na (pH 7.0±0.2 at 25°C). TAE is a commonly used buffer for agarose gel electrophoresis of DNA. TAE buffer is generally recommended for electrophoretic separation of fragments larger than 13 kb. The mobility of double-stranded DNA is faster when using TAE buffer, but the limited buffering capacity is not compatible with long-term (e.g., overnight) electrophoresis.

Available sizes: 20 Pack or 100 Pack.

Limitations

- For Research Use Only. Not Intended for Diagnostic or Therapeutic Use.

Precautions

- Always wear appropriate protective clothing and follow safe laboratory procedures.

Storage

Store unopened packs at 10-30°C for up to 36 months.

Preparation of Reagents

1. Transfer instant powder granules from 1 packet of Instant TAE Buffer to a beaker.
2. Pre-dissolve the granules by slowly adding 500 mL distilled or deionized water to the beaker, allowing the 1-5 minutes for the granules to completely dissolve while gently stirring with a stirring rod or magnetic stir bar.
3. Transfer the dissolved solution to a volumetric flask and bring up the volume to 1000 mL by adding distilled or deionized water, which is a 1X working solution.