

TAE

REF: CP17201M

Storage Condition

Store at room temperature for three years

Components

Component	CP17201M
TAE	100 Pouches

⚠ Note: pH is 8.3±0.1@25°C when made to 1× solution.

Description

TAE appears as white instant granules. Each pouch makes 1 L of 1× TAE solution conveniently with a simple procedure. The main components of TAE buffer are Tris-acetate and EDTA-2Na. The final concentration of the 1× solution is 40 mM Tris-acetate and 1 mM EDTA-2Na.

TAE buffer is a nucleic acid electrophoresis buffer widely used in biology labs. It is mainly used in agarose gel electrophoresis of DNA. The migration of linear dsDNA is fast with TAE buffer. When separating DNA molecules bigger than 13 kb, TAE buffer is usually recommended. TAE buffer is suitable for recovering DNA from the gel after electrophoresis. Because the buffering capacity is relatively small, long time electrophoresis (e.g. overnight) is not recommended.

Method

1. Put magnetic stirring beads and ~600 ml distilled water into a beaker.
2. While stirring, slowly pour the whole contents from 1 pouch of TAE into the beaker; wait until everything is dissolved.
3. Add distilled water to bring the volume to 1 L and 1× solution is made.

Buffer making procedure using the RTU instant granules

