TAE

REF: BIG008

Storage Conditions

Room temperature

Valid period

3 years

Product Composition

Item No./Specification	BIG008			
TAE	1L/ Pouch	1L/ Pouch×10	1L/ Pouch×20	1L/ Pouch×30

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

Descripion

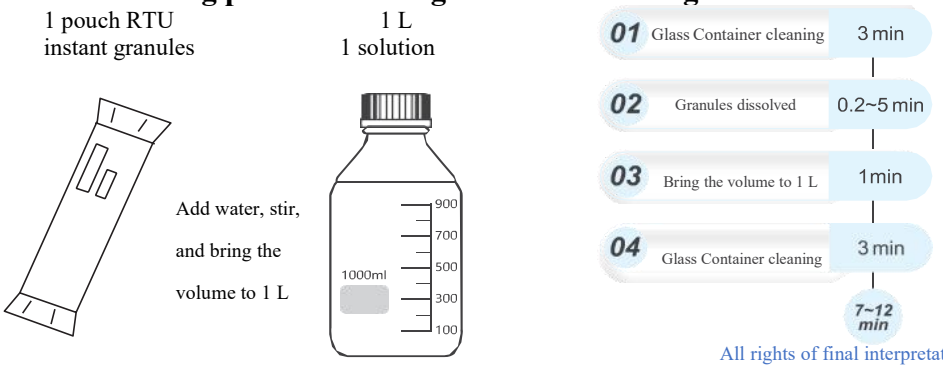
TAE appears as white to off-white instant granules. Each pouch makes 1 L of 1× TAE solution conveniently with a simple procedure. The main components of TAE buffer are Tris-acetate and EDTA-2Na. The final concentration of the 1× solution is 40 mM Tris-acetate and 1 mM EDTA-2Na.

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



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