

# ACEolute™ TAE Instant Granules, 1L/pk

Cat# C7043 – 10 pks | C7044 – 100 pks

Store at room temperature

## **INTRODUCTION**

Tris-Acetate-EDTA Running buffer (TAE) is a buffer solution commonly used in biological research and is widely used. It has the functions of isotonicity, balanced osmotic pressure, maintenance of ionic strength and pH buffer. The permeability and ion concentration match the concentration of human body (isotope) and are non-toxic to most cells. It will not destroy the structure and biological characteristics of biological proteins, and it can ensure that it can participate in biological reactions under the most suitable conditions for complete and active substances, so it is generally preferred to use TAE for active biological agents.

ACE Biolabs's ACEolute™ TAE Instant Granules has been widely used in scientific research experiments such as ELISA, EIA, RIA, protein chip, WB, immune-PCR, immunohistochemistry, IHC, flow FAC, paraffin embedding, etc.

## **Applications**

- 1) Buffer solution for biological research, dissolve protective reagents, diluents, detergents.
- 2) Used for washing or diluting blood samples, active tissues, cells, antigens/antibodies, etc.
- 3) Applied to Western Blot, used for dilution, incubation, blocking and elution.
- 4) Applied to the production of platinum nanoparticle colloids.
- 5) Applied in the field of scanning electron microscope, used for washing blood samples and scanning electron microscope.
- 6) Applied to the preparation of fluorescent agglutinin wheat germ agglutinin (WGA).
- 7) Applied to enzyme-linked immunosorbent assay (ELISA) for dilution of target antibody, etc.
- 8) Apply to centrifugal separation of suspended cells.

## **Features**

- ✓ Precise: accurate weighing of particles, accurate setting of PH value
- ✓ Fast: only 10 seconds to prepare the solution
- ✓ Professional: all raw materials comply with AR/GR level
- ✓ High quality: guarantee excellent reproducibility between different batches
- ✓ Stable: up to 3 years at room temperature

### **Recommended Protocol**

A package of instant particles dissolved in 1000 mL of deionized water can generate 0.04 M Tris-Acetate and 0.001 M Ethylenediaminetetraacetic acid, pH 8.1 at 25°C.

*Notice:*

- 1. Use deionized water (make sure the water temperature is 25°C, pH 7.0);*
- 2. Stir the buffer solution appropriately.*
- 3. Since TAE buffer is prone to precipitation or deterioration, it is recommended to use it immediately.*
- 4. It can be sterilized by filtration or high temperature and high pressure. The filtrate is filtered through a 0.22 µm buffer solution into a sterile bottle or high-pressure steam for 15 to 20 minutes. The sterilized buffer solution can be sealed and stored at 2~8°C for up to one year.*

### **Product components**

Diluted to a 1X working concentration, contains	
Tris-Acetate	40 mM
EDTA	1 mM

### **PRODUCT USE LIMITATION**

These products are intended for research use only.