

Tris-Glycine Fast Electrophoresis Buffer (20×)

Index

1.Product Description.....	1
2.Operation Procedure.....	1
3.Storage condition.....	1
4.Precautions.....	1
5.Related Products.....	2

1. Product Description

This product is a 20X concentrated rapid electrophoresis buffer, modified from conventional Tris-Glycine electrophoresis buffer. While ensuring good electrophoresis performance, it significantly improves experimental efficiency. Taking a 10% Tris-Glycine gel as an example, electrophoresis can be completed in just 25 minutes under constant voltage at 250V. This product is compatible with our company's One-Step PAGE Color Gel Rapid Preparation Kit (BK0061-01, BK0062-01, BK0063-01, BK0064-01) and can also be used for other manually cast Tris-Glycine-based protein gels.

2.Operation Procedure

2.1 Preparation Method

Take 50 mL of Tris-Glycine fast electrophoretic buffer (20×), add 950 mL of deionized water, purified water, or distilled water, and mix thoroughly to obtain 1 L of 1× electrophoretic buffer.

2.2 Electrophoresis Conditions

For Tris-Glycine system protein gels, a constant voltage of 200–250 V can be set according to usage habits. Typically, under a voltage of 250 V, the electrophoresis time is approximately 25 minutes (the electrophoresis duration should be adjusted appropriately based on the concentration of the protein gel).

3.Storage condition

Storage conditions: RT; Shelf life: 2 years.

4.Precautions

- For your safety and health, please wear a lab coat, disposable gloves, and a mask during operation.
- This product is a concentrated solution. Precipitation may occur in low-temperature environments; it can be dissolved by incubation in a 40°C water bath.
- When diluting the Tris-Glycine Fast Electrophoresis Buffer (20×), please use deionized water, purified water, or distilled water. Do not use tap water.
- During dilution, stir thoroughly to ensure complete mixing before electrophoresis.
- Used electrophoresis buffer can be reused after cooling to room temperature, but the total number of uses should not exceed three times.
- Reuse used electrophoresis buffer within two days; do not store it for extended periods before reuse.
- During electrophoresis, if the temperature of the electrophoresis buffer exceeds 40°C, please cool it on an ice bath.
- The electrophoresis time should be set appropriately according to gel concentration, voltage, and experimental requirements.
- This product contains SDS and is only suitable for denaturing PAGE electrophoresis, not for non-denaturing electrophoresis.
- Do not mix this product with other electrophoresis buffers.
- This product should be used before the expiration date.
- This product is for research use only and not intended for clinical diagnosis.

5.Related Products

Product	Cat.No.	Size
Tris-Glycine Fast Electrophoresis Buffer (20×)	BR0148-01	500ml