

### 1. Safety warnings and precautions

Correct operations are necessary. Safety warnings and precautions of this product. The complete instructions should be read and fully understood before attempting to use the product.

The Procedure described in the instruction manual applies only to the use for the intended purpose. Using the product for any purpose other than the intended use or in any manner other than that described in the manual is forbidden.

User shall be liable for all safety measures needed for any use other than specified in the manual.

### 2. Introduction

EzRunC+ is an electrophoresis buffer for SDS-Polyacrylamide gel electrophoresis.

SDS-PAGE starts with treatment of a sample with SDS and reductive disruption of disulfide (S-S) bonds in proteins to sulfide (-SH) bonds. -SH bonds are, however, sometimes reoxidized during electrophoresis and partially form a three-dimensional structure. EzRun C+ prevents the partial oxidation during electrophoresis, providing more accurate results and sharper bands.

For maximizing the performance of EzRun C+, the complete reduction to cleave S-S bonds at sample preparation is indispensable.

Use of 2-mercaptoethanol, a most commonly used reducing reagent, may result in incomplete reduction of proteins. For more secure reduction reaction, we recommend the use of AE-1430 EzApply at sample preparation.

### 3. Package

EzRun C+ (1 bag dissolved in distilled water to a volume of 500 mL) • • • 10 bags

### 4. Components

- Tris
- Glycine
- SDS
- SH protective agent

### 5. Procedure

1. Open the bag of EzRun C+ and dissolve the powder in 500 mL of distilled water.
2. From the solution, take an approximately 20-mL aliquot and put in the bag to dissolve the remaining powder completely, and then return it to the solution.
3. For detailed information on electrophoresis, refer to the instruction manual for the apparatus.

\* Do not reuse buffer previously used.

### 6. Storage

- EzRun C+ should be stored in a refrigerator. Unopened reagent is stable until mentioned expiration date.
- Dissolve 1 bag of EzRun C+ in 500 mL of distilled water and use it within 2-3 hours after preparation.

