

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

EzStain AQua is a reagent used for staining protein bands in polyacrylamide gel.

3. Package

EzStain Aqua (1 L) (for approximately 20 sheets of mini-gel) · · · 1 bottle

Additional Materials required

- Purified water
- Microwave oven
- Microwavable Tupperware

4. Components

- Coomassie brilliant blue
- Citric acid
- Stabilizing reagent

EzStain AQua is an acidic solution with a pH of 2.0 or lower. Therefore it should be neutralized before disposal. Also, EzStain AQua is a concentrated dye solution. You should dispose it after diluting with a large amount of tap water or entrust a professional to dispose.

5. Procedure

- (1) Pour appropriate amount of EzStain AQua solution to a microwavable Tupperware approximately 50 mL of EzStain AQua required for mini-gel size.
- (2) Soak the gel after electrophoresis in EzStain AQua solution of the Tupperware.
- (3) Cover the Tupperware with plastic wrap and punch several holes in the wrap.
- (4) Microwave gently the gel until water droplets appear on the wrap. Do not boil the solution.
- (5) Take the Tupperware out of the microwave oven and gently agitate it for 30 - 60 minutes. Since the microwaved solution is hot, do not touch it directly with hands.
- (6) The bands become visualized within several minutes. When appropriate staining of bands are obtained, discard EzStain AQua and pour purified water to the Tupperware. In the same manner as at staining, microwave the Tupperware and agitate it for 30 - 60 minutes. Exchange purified water, as needed, depending on color development.

* Staining and detaining can be achieved sufficiently without the use of microwave oven, but it may take a longer time.

Technical Note

· The staining reaction with EzStain AQua is correlated with protein concentration. For quantitative analysis, the gel should be stained with EzStain AQua for 3 hours to overnight without microwaving.

6. Storage

· EzStain AQua should be stored at room temperature, avoiding direct light.
Unopened reagent is stable until mentioned expiration date.

