Ver. HB230113

Commassie Blue Fast Stain Solution (8 mins)

Product description

The Coomassie brilliant blue staining method is often used in the laboratory to stain the isolated proteins on the gel. It not only overcomes the limitation of the low sensitivity of amino black staining, but also is easier to operate than silver staining. Coomassie brilliant blue is widely available in G250 and R250. Coomassie brilliant blue G250 is often used in the determination of protein content because of its rapid binding reaction with protein. Coomassie brilliant blue R250 reacts slowly with proteins, but can be eluted off, so it can be used to stain electrophoresis bands.

This product is designed based on the Coomassie brilliant blue staining method for protein staining. Compared with traditional stain solution, this product is a new type of PAGE dyeing reagent, which does not contain toxic or irritating substances such as methanol and acetic acid. Its unique formula enables the function of surfactant stripping, protein fixation, protein staining, shielding non-protein area coloring at the same time. 8-10 minutes to finish PAGE protein staining without decolorization. The resolution of dyeing is equivalent to that of traditional staining methods. The stained protein bands or protein spots can be used for high efficiency electroelution and are suitable for protein spectrum analysis.

Components

Components No.	Name	20309ES03
20309	Commassie Blue Fast Stain Solution (8 mins)	8 mL（125×）

Specifications

Detection Location	In-Blot Detection, In-Gel Detection
Label or Dye	Coomassie
Product Type Specs	Protein Gel Stain Reagent
Target Molecule	Protein

Storage

The product should be stored at room temperature for one year.

Instructions

1. Prepare stain working solution

This product is supplied in 125 x concentrate solution, 8 mL per bottle. Before use, you only need to take a bottle of 8 mL of dyeing stock solution and dilute it to 1 L with deionized water or distilled water. After mixing, it will become the dyeing working solution and store it at room temperature.

2.Staining steps

2.1 After electrophoresis, strip the SDS-PAGE, or native-PAGE (about 10 x 10 cm, thickness less than 1 mm), and place in a microwavable plastic box with lid slightly larger than the gel.

Notes:Be sure to have a cover to prevent excessive evaporation.

2.2 Add 50 mL dyeing solution, put it in microwave oven with high power (maximum "fire" of microwave oven) for 1 minute, take out the dyeing gel box, put it on a horizontal shaker, and shake it at medium speed for 3-5 minutes. Pour away the dyeing solution.

2.3 Add 50 mL of new dyeing solution and heat it on high power for 1 minute, then heat it on low power (the minimum "fire" in microwave oven) for 3-8 minutes.

2.4 Pour away the dyeing solution and rinse off the residual dyeing solution with clean water to observe or take photos. If rinsed several times with clean water on a rotating shaker, the residual weak background can be completely removed.

Notes

1. The protein band can be displayed after 4 minutes of using this product, prolonging dyeing time and increasing dyeing times, which is beneficial to improve the dyeing sensitivity.
2. If the gel area or thickness increases, increase the dyeing solution and dyeing time.
3. Do not heat with high power for a long time, or the solution will boil and evaporate continuously, causing gel to dry. If the gel is accidentally dry, 50 mL of deionized water can be added, heated at high power for 1 minute, and at low power for 3-5 minutes to restore the dry PAGE to some extent, but the dyeing effect is somewhat damaged.
4. Please wear the necessary PPE, such lab coat and gloves, to ensure your health and safety!
5. For research use only!