Coomassie Brilliant Blue Fast Staining Solution

Catalog# BWR1038

Size: 200 ml

Lot # Check on the product label

Introduction

1. Based on Coomassie G250 dye, Coomassie Brilliant Blue Fast Staining Solution can be used for fast and sensitive staining proteins in electrophoresis gel in SDS-PAGE or native PAGE, or used for detecting the remaining proteins on PAGE after Western transfer membrane.
2. Instead of common toxic methanol and irritant acetic acid, this solution is prepared by a unique formula, it is non-toxic and non-irritant.
3. This solution can detect band at 100ng in electrophoresis gel within 1 hour or shorter time, however, the routine method need more than 3 hours.

Kit Components

Components	Size	Storage Instruction
Coomassie Brilliant Blue Fast Staining Solution	100 ml× 2	Store at RT for one year.

Protocol

1. After electrophoresis, wash gel with distilled water by agitating for 3 times, 5 min each to remove the interferent, like salt, SDS, etc.
2. Remove the distilled water, add small volume of Coomassie Brilliant Blue Fast Staining Solution (agitate before use) to immerse the gel.
3. According to the protein quantity, the band for large quantity of protein will appear within 10-30 min, but the majority bands will appear within 1-2 hours. To obtain more sensitive band or to speed up the staining, end user can immerse the gel in Coomassie Brilliant Blue Fast Staining Solution, and water bath at 95-100°C or heat by a baking or microwave oven to 95-100°C, then stain on a shaker. When the staining solution cool to room temperature, water bath or heat to 95-100°C and stain on a shaker, repeat this for 2-3 times.

Note: Avoid boiling when heat to prevent the gel break.

4. Stop staining when the target bands appear obviously. Remove the staining solution, add appropriate volume of distilled water to stop the staining reaction. Then, photograph and record the results.

Note: To obtain more clear bands, wash the gel with RT distilled water or immerse in 4°C distilled water overnight. Or after immersing in 4°C distilled water overnight, the next day, stain and wash the stained gel in the same way, the staining efficiency can be improved, and can get better bands.

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Trouble Shooting

1. **No bands appear:** the loading volume may be small, it is recommended to set two BSA lanes with different volumes as positive control during electrophoresis.
2. **High background:** the interferent may not remove thoroughly, it is recommended to increase wash after electrophoresis.
3. If precipitate appears when stain the gel, the container may be contaminated. It is recommended to change a clean container, and add the fresh staining solution to continue staining until get obvious bands.

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