

Coomassie Blue Staining Solution (10x) (AGEL3542)

1. Product Details

SKU Code: AGEL3542

Product Name: Coomassie Blue Staining Solution (10x)

Size: 100 mL / 200 mL

Storage: ~ 2°C - 8°C

2. Introduction

Assay Genie's Fast Coomassie Blue Staining Solution uses Coomassie Blue G250 as the dye and allows for rapid staining of SDS-PAGE and Native-PAGE gels. This non-toxic solution has no strong odor and offers fast integration, high precision, easy destaining, and excellent stability.

Characteristics:

- **Fast:** Wash the gel for 5 minutes and stain for 10 minutes to visualize the electrophoresis bands.
- **High Precision:** Bands as small as 200 ng can be detected after 10 minutes of staining (see Figure 1a). In contrast, conventional staining methods struggle to detect these bands (see Figure 1b).

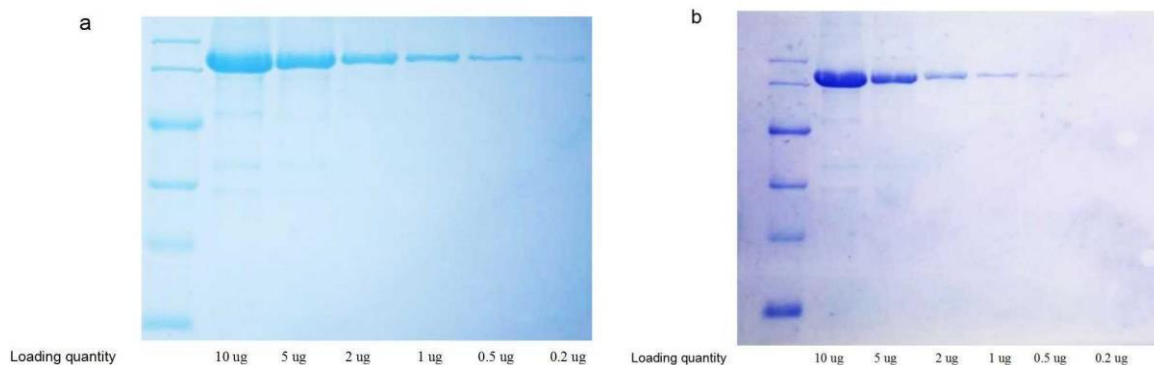
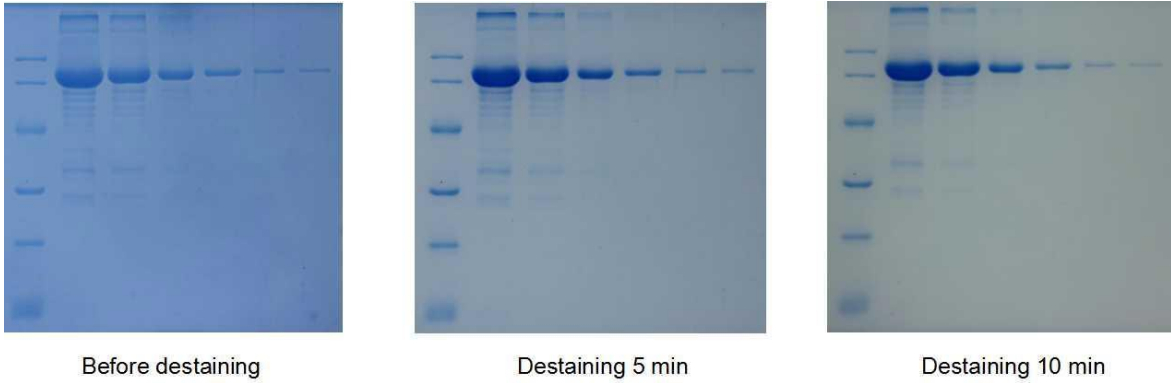


Figure 1

- **Low background:** The bands can be observed without destaining, and low-background images can be obtained by destaining with DI water. Extending the destaining time may further improve the results (see Figure 2).



- **Stability:** Storage of the solution at 37°C for 2 weeks has no significant difference in dyeing effect (see Figure 3).

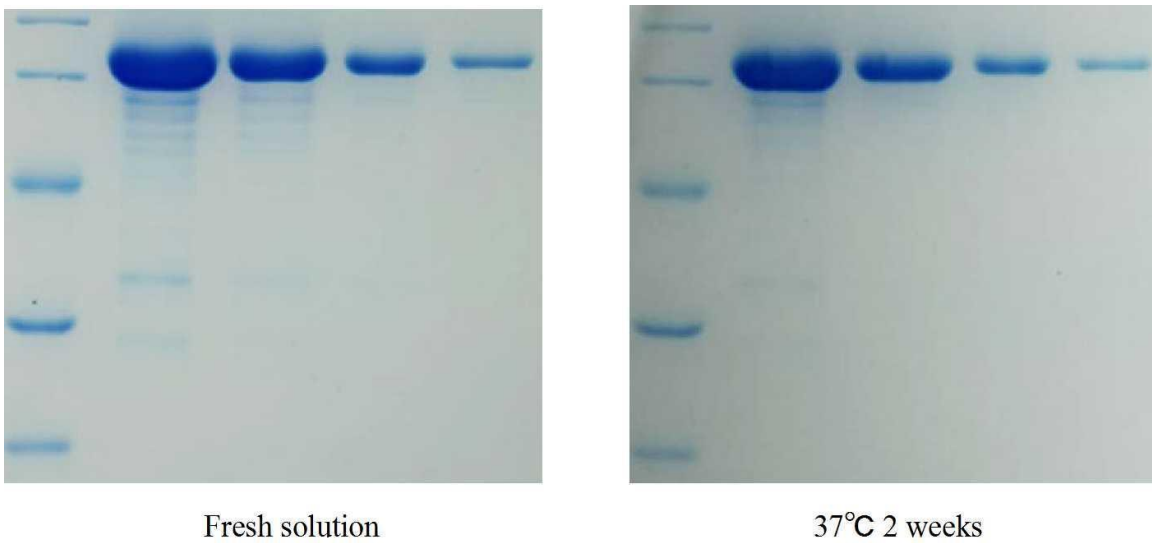


Figure 3

3. Instructions

Coomassie Blue Staining Solution (10×) is a concentrated solution. Dilute it with DI water to prepare a 1× Coomassie Blue Staining Solution before use.

For example, take 10 mL of Coomassie Blue Staining Solution (10×) and dilute it with DI water to a final volume of 100 mL.

4. Experimental Procedure

4.1. Wash the gel

Place the gel in a container and wash it with DI water. Then, add approximately 50 mL of DI water and heat for 3 minutes in a microwave, or add boiling DI water and shake for 5 minutes. Discard the DI water. This step can be repeated once.

Note: For low-concentration gels, it's recommended to add boiled DI water instead of microwave heating. Native -PAGE can be dyed directly without this step.

4.2. Staining

Discard the liquid, then add the diluted 1× Coomassie Blue Staining Solution to completely immerse the gel. Shake at room temperature for 10 minutes. Discard the staining solution and wash the gel with DI water to remove any residual stain. Then, take a photograph.

Note: 10 min is a conventional staining time. The actual staining time can be adjusted according to the result

4.3. Destain (Optional for lower background)

Add 50~100 mL of DI water and heat with microwave or add boiled DI water and shake to decolorize. Discard the liquid about 5 min later. It can be repeated once to get lower background.

5. Storage

Store at RT for 6 months in dark or store at 2~8°C for 12 months.

6. Cautions

- This solution is acidic and corrosive slightly. For your safety and health, please wear the lab coat and disposable gloves before the experiments.
- It is better to use DI water, but the pure water also can be used instead of DI water.
- Avoid breaking the gel due when heat with the microwave

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