

SpectBlue Protein Staining Reagent

Cat#: 8019011

[Product name]

SpectBlue Protein Staining Reagent

[Model & Size]

Product Name	Cat No.	Size
SpectBlue Protein Staining Reagent	8019011	250 mL

[Product Description]

SpectBlue Protein Staining Reagent is a fast, highly sensitive, low-background, low-toxic Coomassie Brilliant Blue replacement solution. This product does not contain methanol, acetic acid and trichloroacetic acid. The formula is environmentally friendly and has no irritating smell. There is no need to use harmful solvents during decolorization. Can be used for rapid staining of proteins in SDS-PAGE gels without the need for toxic destaining solutions.

This product has high sensitivity and it only takes at least 15 minutes to observe a 10 ng protein band. Appropriate extension of the staining time can further improve the sensitivity.

Clear protein bands can be observed immediately after staining, and destaining with pure water can further reduce the background and improve the signal-to-noise ratio.

[Storage and Transportation]

Store at 2°C~8°C ,valid for 12 months.

Transported on room temperature.

[Operating Instructions]

Gel staining steps

1. Gel cleaning before staining

Place the SDS-PAGE gel in a clean container, add 300 mL~400 mL purified water, shake and wash for 5 minutes, repeat 3 times. If performing Native PAGE, rinse with purified water for 5 minutes.

Note: SDS inhibits the binding of the staining solution to the protein, so be sure to rinse the gel with sufficient purified water. If you use 200 mL purified water for cleaning, it is recommended to clean it for 10 minutes × 3 times. If the gel thickness is >1 mm or the concentration is >15%, it is recommended to clean it for 10 minutes × 3 times. If using large pieces of gel, please clean it with 5mL of purified water per square centimeter.

2. Staining

Shake SpectBlue staining solution evenly before use. Discard the purified water and add an appropriate volume of SpectBlue staining solution (appropriate to cover the gel). Place on a shaking table for staining for 15 to 30 minutes. After the staining is completed, discard the staining solution and add purified water to wash to remove the residual staining solution, and the results can be observed.

Note: If the protein content is low, the staining time can be appropriately extended. The actual staining time can be determined based on the degree of band visualization.

3. Decolorization

Add 200 mL of purified water for decolorization. The purified water can be replaced every 20 minutes for rinsing. Repeat 3 to 4 times to obtain a gel with extremely low background. Soaking the stained gel in purified water overnight can also achieve a good background removal effect and obtain clear protein bands.

Note: Microwave oven or water preheated to 50°C~60°C can be used for decolorization to shorten the decolorization time. If large gels are used, please wash with 5 mL of purified water per square centimeter. Decolorization steps in microwave oven: add 100 mL purified water to each mini gel, after microwave for 30 seconds, gently shake it on a shaker for 5 minutes. This step can be repeated 2-3 times. Preheated water: add 100 mL of purified water preheated at 50°C ~60°C to a container with colloid and shake it gently for 5 minutes. This

step can be repeated 2-3 times to completely clean the background.

Gel preservation after decolorization

The gel can be placed in a sealed bag containing pure water and stored at 4°C for several weeks. Do not leave the gel at room temperature.

Decolorization followed by MS analysis









Please refer to the following steps and consult the MS instrument service personnel for details.

1. Cut the protein band to be analyzed with a tissue knife and destain it with 10%~30% ethanol or 20%~30% acetonitrile for 10 to 15 minutes.
2. Wash with purified water and perform MS analysis.

[Precautions]

1. This product is a ready-to-use liquid.
2. This product is only used for scientific research by professionals, for your safety and health, please wear a lab coat and disposable gloves.

[Description of Product Symbol]

Product Symbol	Description	Product Symbol	Description
	Catalog Number		Batch Code
	Date of Manufacture		Manufacturer
	Keep away from light		Temperature limit
	Consult instructions for use		Use-by date

[Company Information]

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