Polyacrylamide Protein Gel Rapid Staining Solution

Index

1. Product Introduction

Polyacrylamide protein gel rapid staining solution is a protein staining solution that can instantly stain the gel at room temperature, start to show color in 2 minutes, does not require decolorization, is non-toxic and has no irritating odor. This product is suitable for denaturing and non-denaturing protein gel staining, with convenient, fast, high sensitivity, green and many other advantages, is the first choice for polyacrylamide protein gel staining.

Product Advantages:

①The staining is fast, and protein bands can be seen within 5 minutes.

②It is convenient to use and does not require decolorization.

③Non-toxic and odorless.

④High sensitivity, capable of detecting ng-level proteins.

Storage conditions:

Storage temperature: Room temperature,Shelf life: 3 years.

2. Operation Procedure

①Take the polyacrylamide protein gel after electrophoresis and put it into a plastic container, add an appropriate amount of rapid staining solution to cover and immerse it, usually about 30-50ml (depends on the size of the container).

②Place it on a shaker and shake it gently. After 1-2minutes, the bands will start to appear. Usually, the dyeing time can range from 30 minutes to overnight. As time goes by, the dyeing bands will deepen, but the background color will not increase with the dyeing time. If necessary, the staining solution can be reused for 3 times.However, as the number of uses increases, the dyeing speed slightly decreases. Therefore, it is recommended to use fresh dyeing solution.

③After the staining, rinse the polyacrylamide protein gel in water and take it out for better photo results. Due to the different isoelectric points of various proteins,the instantaneous adhesion ability of dyes varies. It is recommended to stain for more than 2 hours or overnight, and then rinse the gel in water or store it for a long time.

3. Product Application

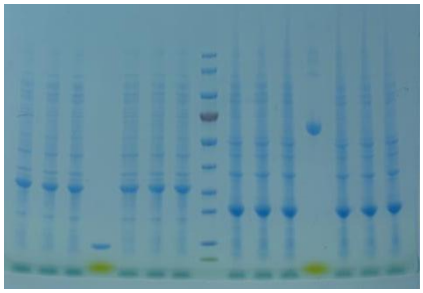
①This product is suitable for pre-prepared in the laboratory or prefabricated SDS-PAGE and Native gels, and is compatible with mass spectrometry detection.

②It is also applicable to the staining of residual proteins on PAGE gel after Western Blot transfer to detect whether the transfer is complete.

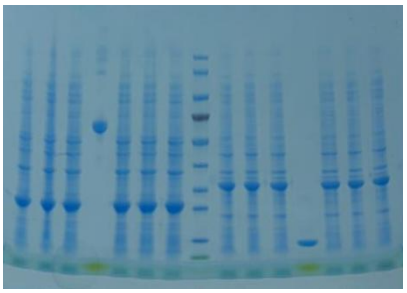
4. Staining Sensitivity Test Chart

①After 5 minutes of staining, approximately 50ng of protein can be colored, and the staining effect will be better as time goes on.

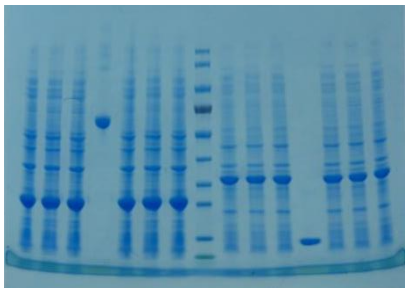
②The following picture shows the gel directly taken from the staining solution, with a light blue background color. If high-quality image drawing is required, it is recommended to stain for 2 hours or overnight, then rinse the polyacrylamide protein gel in clean water for 0.5 to 2 hours to decolorize,the background color can be completely removed and the target band will be clearer.



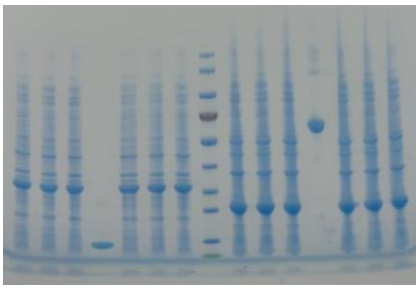
Stain 0.5 h



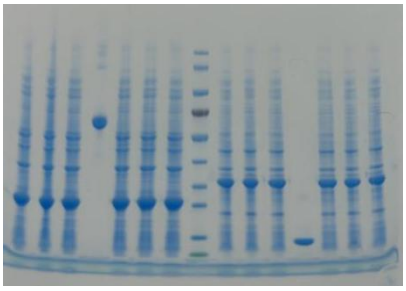
Stain 1 h



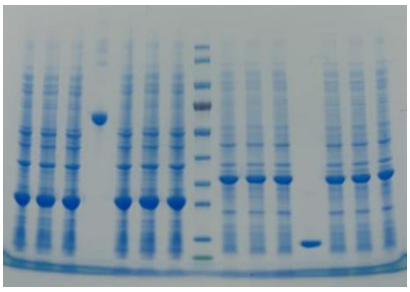
Stain 2 h



decolorize 0.5 h



decolorize 1 h



decolorize 2 h

5. Precautions

①The dye solution is acidic, please do not touch it with your bare hands.

②If the thickness of the gel exceeds 1mm, please add more staining solution and extend the dyeing time appropriately.

③Like the traditional Coomassie Brilliant Blue staining solution, this staining solution binds to the positively charged groups on proteins. When quantitatively comparing different proteins, the number of positively charged amino acids needs to be considered. The higher the proportion of positively charged amino acids in a protein, the deeper the staining.

6. Related Products

Product	Cat.No.	Size
Polyacrylamide protein gel rapid staining solution	BR0070-01	500 ml
	BR0070-02	1 L