

VisPRO™ Blue-One Protein Stain

VB01-500

V1.1

Store at 2-8 °C
For Research Use Only

■ Introduction

VisPRO™ Blue-One Protein Stain is an ultrasensitive protein stain reagent based on Coomassie brilliant blue G-250 (CBG) method. The CBG visualize protein bands in polyacrylamide gels by hydrophobic interactions and heteropolar bonding with basic amino acids.

VisPRO™ Blue-One Protein Stain is a ready-to-use reagent and it rapidly visualize the protein bands with a low background level after 15 minutes incubation. Compared to the widely used Coomassie brilliant blue R-250 (CBR), **VisPRO™ Blue-One Protein Stain** has a better sensitivity (down to 4 ng) and its staining procedure requires no washing, fixing, microwaving or destaining. In addition, **VisPRO™ Blue-One Protein Stain** is mass spectrometry and sequencing compatible because it does not permanently chemically modify the target proteins.

■ Product Components

VisPRO™ Blue-One Protein Stain (VB01-500)

Blue-One Protein Stain	500 mL	1 bottle
User's manual		

■ Safety Information

Please wear gloves, lab coat and goggles while operating. Prevent contact product directly. In case of contacting, wash with large amount of water.

■ Storage

VisPRO™ Blue-One Protein Stain should be shipped at room temperature and be stored at 2-8 °C. Expiration date is labeled on the bottle or box.

■ Materials needed but not provided

1. Container
2. Deionized water

■ Instruction

NOTE: Before use, mix the **Blue-One Protein Stain** immediately by gently inverting the bottle a few times (do not shake the bottle to mix the reagent).

1. After electrophoresis remove the gel from the cassette and directly transfer the gel into a clean container.
2. Pour 25 ml **Blue-One Protein Stain** into the container. Use sufficient volume of the reagent for large gel or bigger container to facilitate protein staining.
3. Incubate the gel with gentle shaking for 15 minutes or until all the weak protein bands are fully observed.

NOTE: For best staining sensitivity, incubate the gel about 1~2 hour. The blue intensity of the protein bands increases with longer incubation and it reaches the maximum after over-night incubation.

4. For the best signal/noise ratio, transfer the stained gels into deionized water for a few hours or directly execute step 5.
5. Capture the gel images by scanner with transmission mode or gel imaging capture system.

■ Troubleshooting

Problem	Possible cause	Remedy
No protein band visualized	Protein amount less than few nanogram	Increase protein loading amount Increase reagent incubation time
	Reagent out of the expired date or re-used	Check the expired date Use fresh reagent
Blue intensity of protein bands is too strong	Too much protein loaded on gel	Decrease protein loading amount
High background value	Sample contains interfering substance	Transfer the stained gel into deionized water for few hours

■ Related Visual Protein Products

Dual-Range™ BCA Protein Assay Kit	BC03-500	1 kit
Dual-Range™ Bradford Protein Assay Kit	BR05-500-K	1 kit
RIPA Cell Lysis Buffer (5X)	RP05-100	100 mL
SDS-PAGE Running Buffer, 20 packs	RB500P	1 set
VisPRO™ 5 Minutes Protein Stain Kit	VP01-500	1 kit
VisPRO™ 5 Minutes Protein Stain Kit (5X)	VP05-500	1 kit