

VP-PS101

VisPRO 5 Minutes Protein Stain Kit

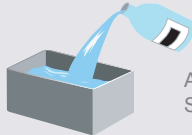


User Manual



AVE  ENE

Gel in the stain box



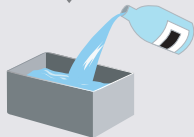
Add VisPRO™ 5 min Protein Stain Kit
Solution I

Shake 5 min



Discard solution I

Wash gel with ddH₂O



Add Solution II
15~30sec

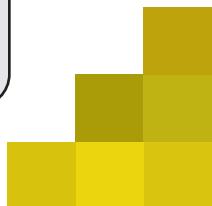
Discard solution II
Wash gel with ddH₂O



Scan gel by **Proimager**



Analyze image with
Power PS2



VisPRO 5 Minutes Protein Stain Kit

VisPRO 5 minutes Protein Stain Kit provides a quick easy way to read your protein gel. Simply add the VisPRO solution to your gel and in less than 5 minutes the electrophoresis result is visible without using a UV transilluminator or expensive gel scanner.

VisPRO 5 minutes Protein Stain Kit applies the principle of zinc stain, a negative staining method. The formation of zinc-imidazole complex on polyacrylamide turns the gel to white, while the protein area prevent the stain and remain transparent. VisPRO 5 minutes Protein Stain Kit perfectly matches to current proteomic research. Generally, more protein spots can be detected in 2-DE gels by this robust staining method, compared to silver and Sypro Ruby staining. Moreover, the unfixing nature has it very ideal for subsequent analysis by mass spectrometry. Proteins developed by VisPRO 5 minutes Protein Stain usually have higher rate of good annotation.

Key Advantages of VisPRO Protein Stain Kit :

- 1.Stain protein gel in one step.
- 2.Ready to use.
- 3.Complete staining in 5 minutes.
- 4.No need to buy expensive instruments.
- 5.Excellent sensitivity.
- 6.Fully compatible with downstream application.

Protocol

1. Place the gel in the staining box

(Tips: dark color staining box is recommended to have a better view of the staining result)

2. Add Solution I: Sensitizing Solution with gentle agitation for 5-10 min

(Warning: Due to high sensitivity of the reagent, please prevent contacting the area where protein samples locate.)

(Warning: Use gentle agitation, violate agitation will cause damage of the gel)

(Tips: For best result, the gel should be soaked completely in Solution I)

(Tips: It takes about 25 ml Solution to stain a 8*10 cm gel with gentle agitation)

3. Discard Solution I: Sensitizing Solution carefully rinse with ddH₂O and discard right away.

(Warning: Discard solutions carefully. Do not let gel slides out of the staining box.)

(Tips: Gel can be rinsed again if Solution I is not completely removed.)

4. Add Solution II: Developing Solution with gentle agitation for 15 sec to 30 sec. Discard solution II when the image develops with clear contrast. Wash again with ddH₂O. Gel can be stored in ddH₂O.

(Tips: Do not pour Solution II directly on the gel. Pour solution II around the gel.)

(Tips: Start agitation as soon as Solution II is added to make sure the staining is even.)

(Tips: Time required for agitation depends on the thickness and concentration of the gel. We recommend using a dark color staining box to view the staining result and to help stop the reaction at the best time.)

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.

Product components

VP-PS101

VisPRO 5 minutes Protein Stain Kit

Solution 1: Sensitizing Solution 500ml * 1

Solution2: Developing Solution 500ml * 1

User's manual * 1

Storage

VisPRO Protein Stain Kit can be stored at room temperature for two year before opening. Please finish the product in six months after opening.



Appendix A: Trouble Shooting

1. Background is too white:
The gel may be over-developed. Reduced the reaction time of Solution II
2. Background is not white enough to show the bands:
Increase the developed time with solution II.
3. Uneven background:
Make sure to pour solution II around the gel. Do not pour solution II directly to gel. Agitation as soon as solution II is added.

Appendix B: Erasing Protocol

1. Add 10% Acetic acid solution for detaining or fixing.
2. Add Tris-Glycine buffer to destain when protein elution or protein blotting will be applied as downstream application.

Appendix C: Accessories

AG-BS1001 Black Staining Box (Small)

Size: 125L*95W*35H mm

AG-BS1002 Black Staining Box (Large)

Size: 175L*175W*42H mm

For Research Only



Appendix D: Comparison of Staining Methods

Methods	VisPRO 5 minutes Protein Stain	Sypro Ruby Stain	Silver Stain	CBR Stain
Preparation of solutions	0 min	5 min	20 min	0 min
Fixing Step	0 min	1hr		0 min
Stain	5 min	overnight	3 hr	30 min~
Image Display*	30 sec	30 min	4~20 hr	30 min~
Total	5 min 30 sec	18 hr		1hr~8hr
Imaging instrument	Visible light	UV light	Visible light	Visible light
Irritated or toxic chemical	no	Acetic acid Methanol	Nitrate Acetic acid Silver Nitrate	Acetic acid Methanol
Sensitivity	< 1 ng	1 ng	1 ng	50 ng
Quantitative range	1-100 ng	1-1000 ng	1-100ng	50-500 ng
Capability to downstream applications	Yes	Yes	No (Protein Cross link)	Yes but limit

*including operating · developing and destain Time





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