




VisPRO™ 5 minutes Protein Stain Kit

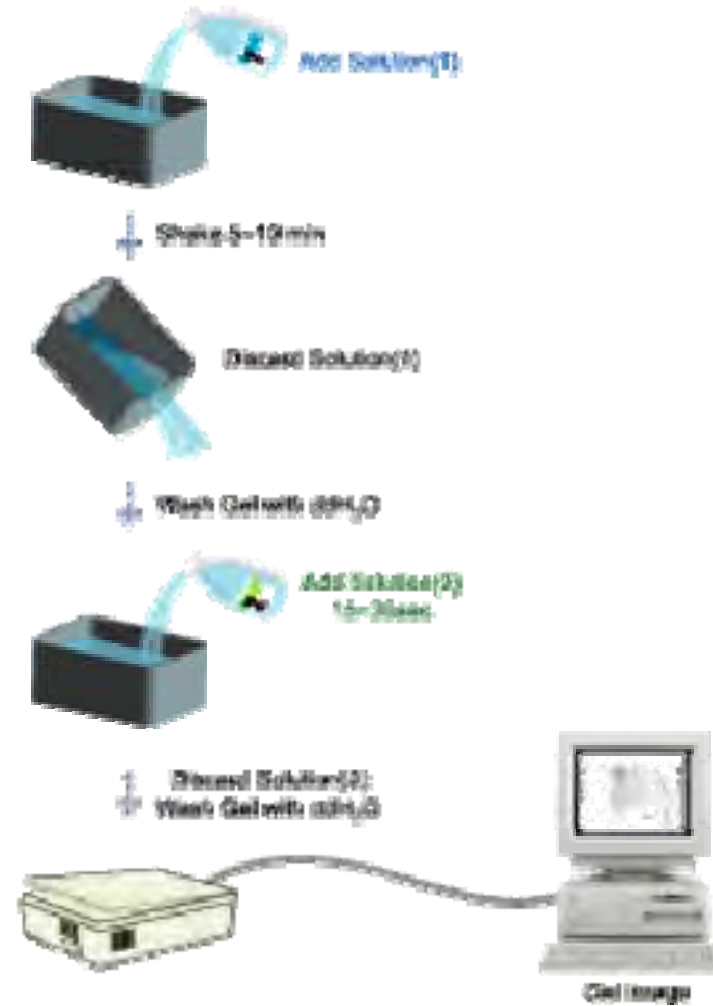


No more preparation
No more destain
Only 5 minutes

You get the results better than silver stain

Operation Procedure

Gel in the Staining Box





Principle and Background

- **Negative stain**
- **Improvement edition of Zinc Stain**
- **Zinc Stain is invented in 1980 times , the relation of factors because of space-time, few people use**
 - ***The reproducing is not good***
 - ***The image observes and relies mainly on naked eye***
 - ***The image picks and fetches the equipment scarcely***
 - ***There are no downstream experiment and High sensitivity demand***

VisPRO 5 minutes Protein Stain Kit advantage

- **Ready to use**
- **Less than 10 minutes**
- **See by eyes.**
- **1ng sensitivity**
- **Reversibility**
- **Compatible with mass spectrometry analysis!**
- **Economic**

Comparison of various kinds of decoration methods (I)

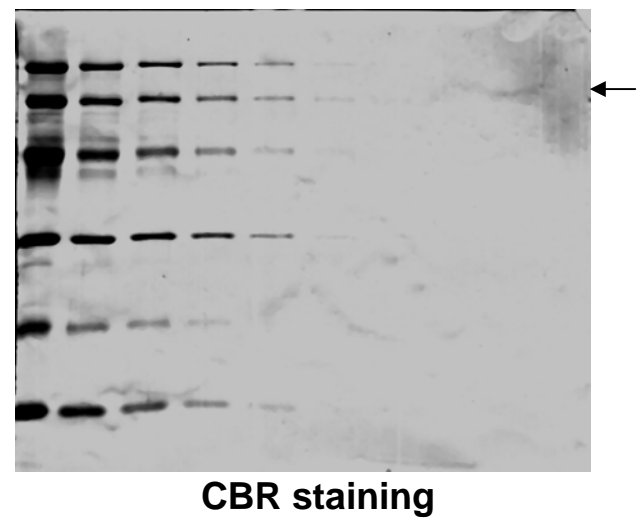
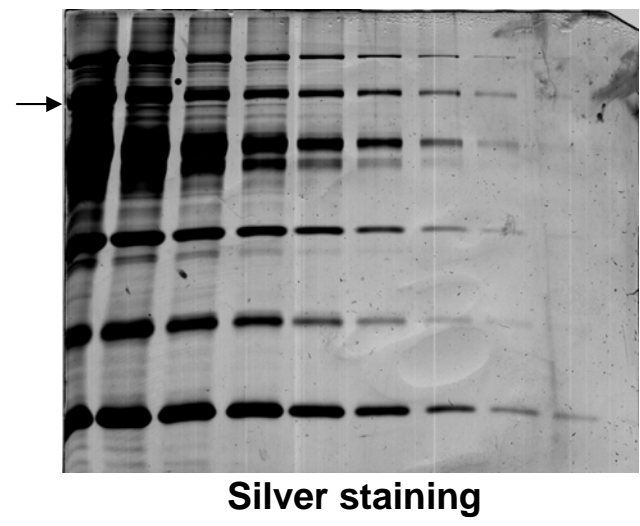
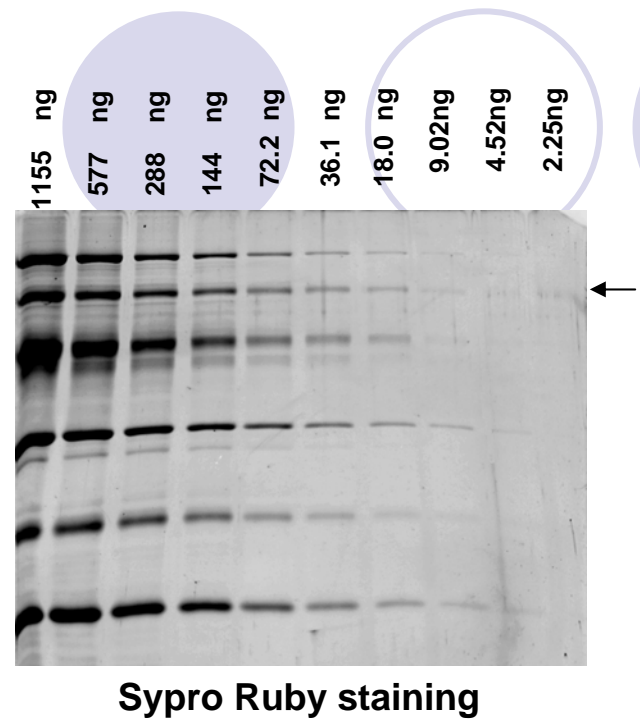
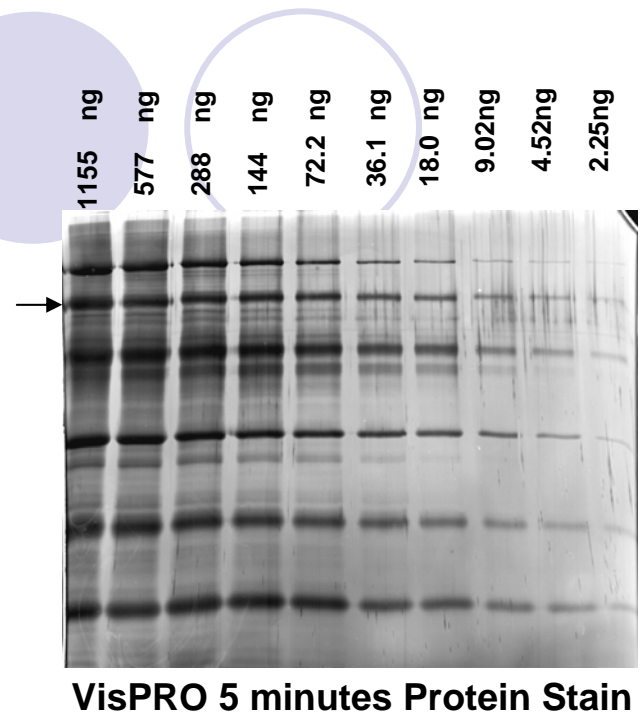
Method	VisPRO 5 minutes Protein Stain kit	Sypro Ruby	Silver Stain	CBR Stain
Preparing time	0 min	0 min	20 min	0 min
Fixing Step	0 min	1hr	1hr~overnight	0 min
Stain	5min	overnight	3 hr	30 min~ overnight
Image Display time*	3 min	30 min		30 min~ overnight
Hands-on time	5 min	10 min	1hr	20 min
Total time	5~10 min	18 hr	4~20 hr	1hr~8hr

* Include operation, developing and destain Time

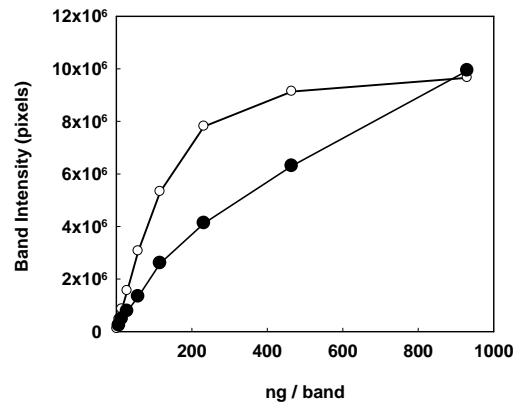
Comparison of various kinds of decoration methods (II)

Method	VisPRO 5 minutes Protein Stain kit	Sypro Ruby	Silver Stain	CBR Stain
Image equipment	Visible light (Cheap)	bioluminescence (Very expensive)	Visible light (Cheap)	Visible light (Cheap)
Stimulate and toxicity Chemical	none	Acetic acid、Methanol	Acetic acid、Silver Nitrate、Glutaraldehyde	Acetic acid、Methanol
Sensitivity	1 ng	1 ng	1 ng	50 ng
Linear range	1-2000 ng	1-1000 ng	1-100ng	50-1000 ng
downstream Exp	Yes	Yes	No (Protein Cross link)	Yes but limit

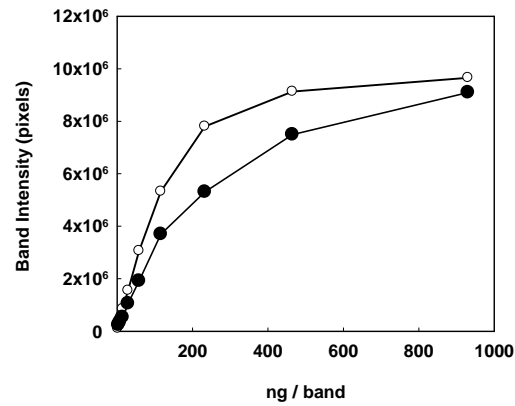
Sensitivity experiment



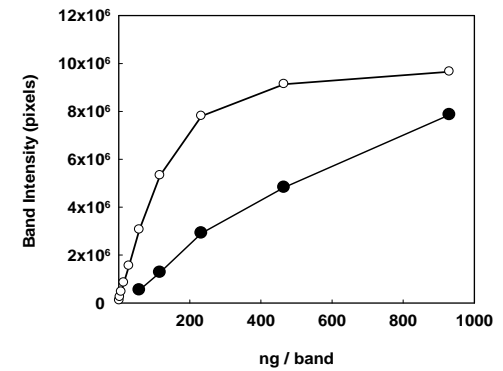
The linear range comparing



VisPRO VS Sypro Ruby

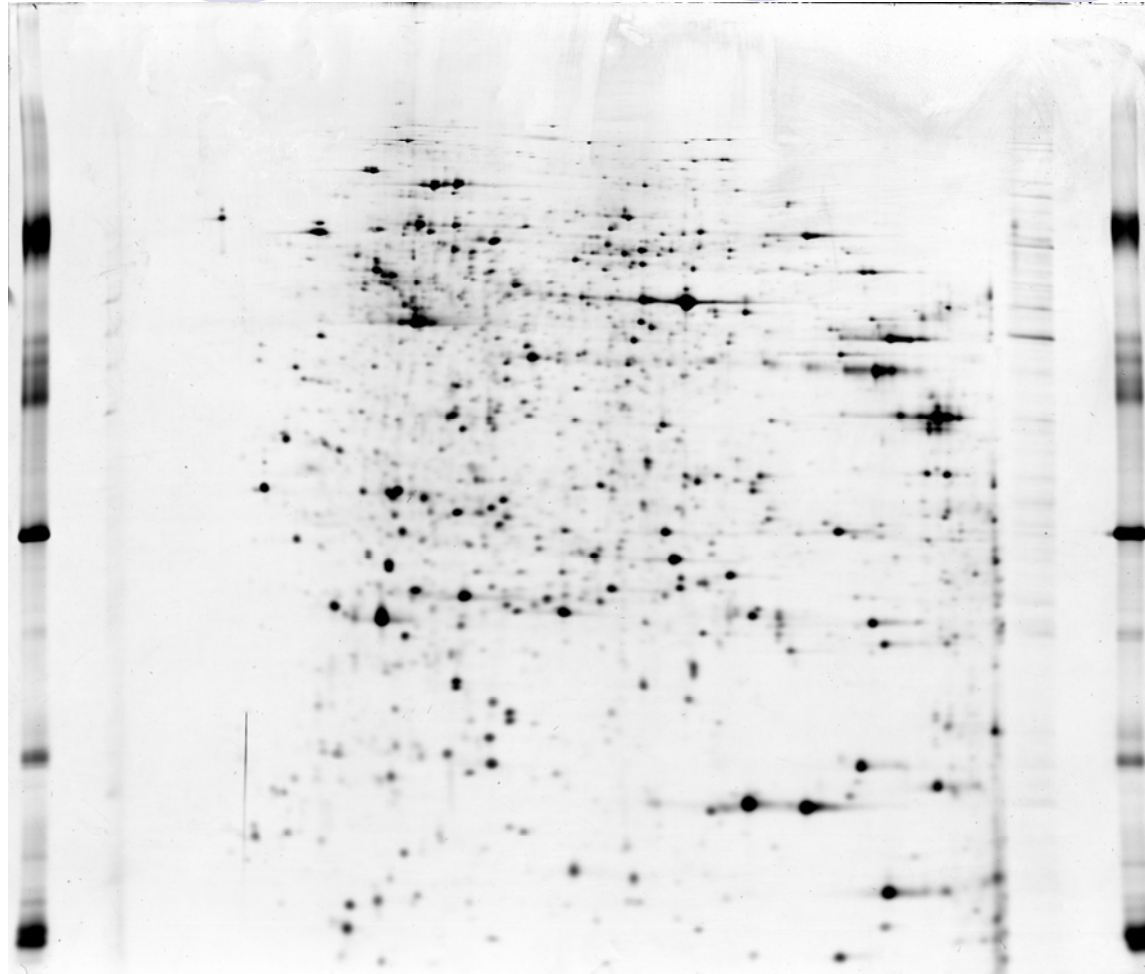


VisPRO VS Silver Stain

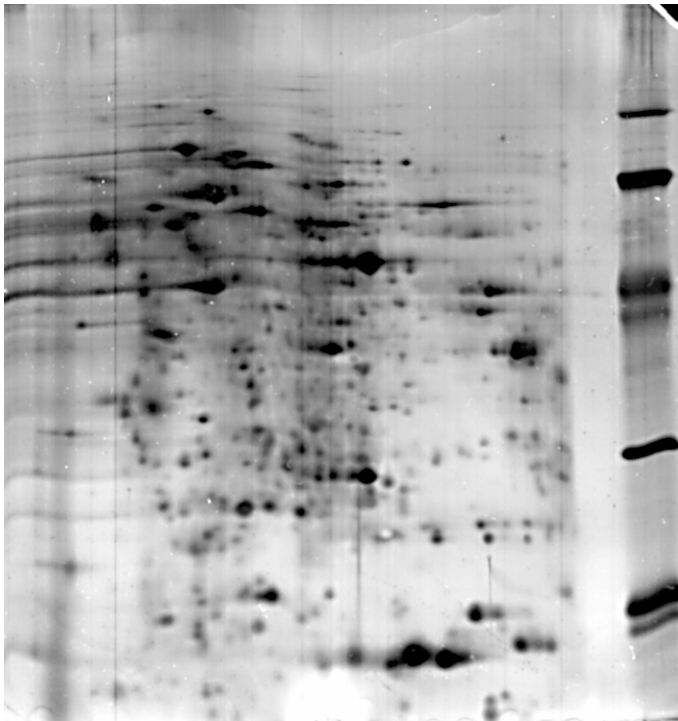


VisPRO VS CBR Stain

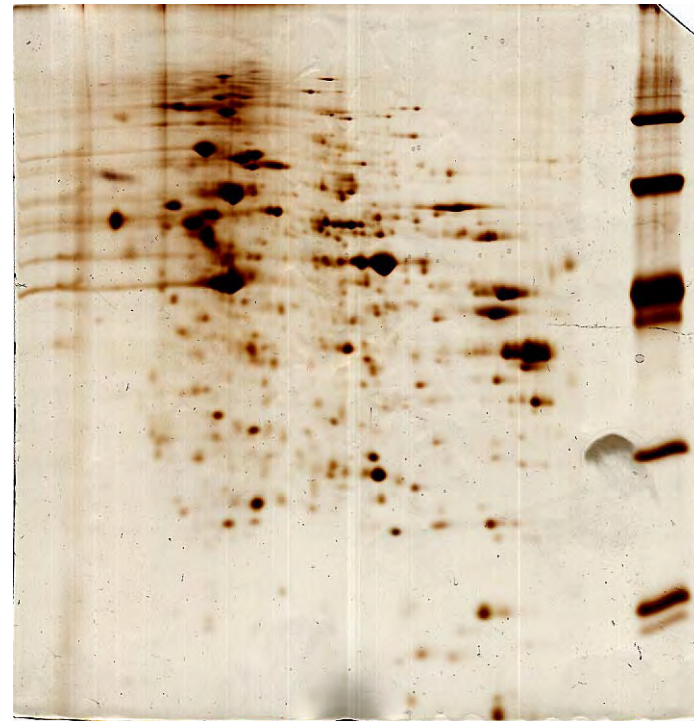
The result of VisPRO 5 minutes Protein Stain Kit



The comparison of VisPRO 5 minutes Protein Stain Kit and Silver Stain result

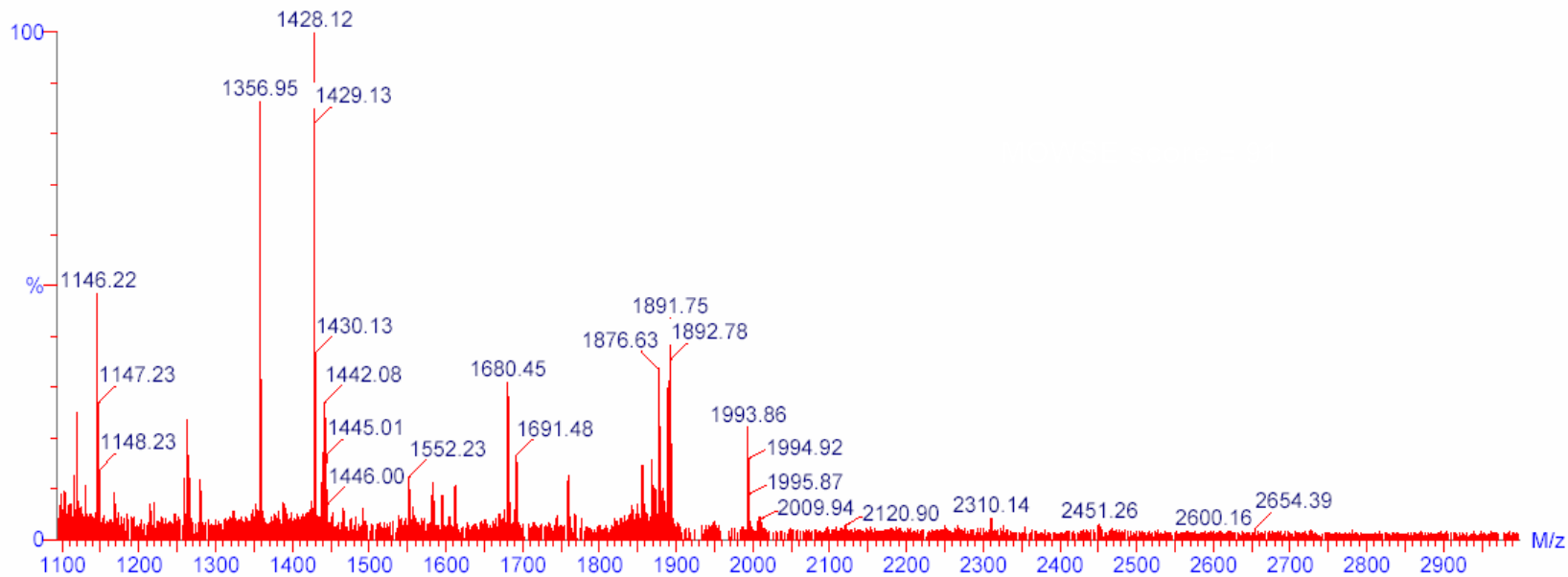


VisPRO 5 minutes Protein Stain Kit



Silver Stain

VisPRO 5 minutes Protein Stain Kit is inclusive in the downstream experiment



The MALDI-TOF spectrum of spots from zinc reverse staining.

The zinc reverse staining spot of phosphorylase b was cut and subjected to mass sample preparation. The observed ionized fragments of rabbit phosphorylase b were annotated.



Conclusion

- **VisPRO 5 minutes Protein Stain Kit can shorten the time to make the electrophoresis result by a wide margin**
- **VisPRO 5 minutes Protein Stain Kit dye efficiency can**
 - **Replace silver stain**
 - **Most CBR stain**
 - **A part of Sypro Ruby stain**
- **VisPRO 5 minutes Protein Stain Kit is inclusive in the downstream experiment**