

ProSave Gel Protein Stain

Product Information

Visualize all proteins by staining the gel, not the proteins! And more...

Catalog number: BP7121, kit (staining of ~20 mini gels)

Name: **ProSave Gel Protein Stain**
Component A: 500 ml of sensitizing solution
Component B: 500 ml of developing solution
Staining container

Storage: Store at room temperature for 2 year before opening. Stable up to 6 months after opening.

- High sensitivity: <1 ng
- **One step** – no need to fix gel !!!
- Ready to use: no time of preparation
- Not toxic
- Quantitative range: 1-100 ng
- Fully de-stainable in <5min for MS, re-staining, blotting, elution...

ProSave Gel Protein Stain is a ready-to-use kit detecting your protein gel rapidly and reversibly.

The staining turns the gel to white, while the protein area prevent the stain and remain transparent. This technique do not need the proteins to be fixed in the gel. Then the gel can be destained easily, for further gel use (other analysis, protein recovery...) in following applications:

- Re-staining by other methods (coomassie, silver, fluorescence)
- Blotting (protein transfer to membranes and immunodetection)
- Protein digestion and mapping / sequencing by mass spectrometry
- Protein recovery by passive elution or electro-elution....
- Protein or peptide amino acid sequencing
- Biological enzyme activity assays
- ...

Directions for use

Staining protocol ⁽¹⁾ :

- 1- Place the gel in the provided staining box.
Note : To have a better view of the staining result, use a dark color staining box.
- 2- Incubate the gel with sensitizing solution A with gentle agitation for 5-10 min. The gel should be soaked completely (~25ml solution to stain a 8*10cm gel)
- 3- Discard the sensitizing solution A carefully and rinse with ddH₂O.
Note : gel can be rinsed again if solution is not completely removed.
- 4- Incubate with developing solution B around the gel and agitate gently for 15 to 30 seconds.
Note : For even staining, start agitation as soon as solution is added.
- 5- Discard this solution when the image develops with clear contrast. Wash again with ddH₂O. Gel can be stored in ddH₂O for up to 1-2 weeks without drying.

Destaining protocols:

The white background can be removed from the gel, that can be then re-stained with another stain reagent. Protocol:

- 1- Add 10% acetic acid solution and destain for 3-5 minutes
- 2- Perform your usual staining method.

The gel can also be destained for protein transfert to blotting membranes, of for protein recovery from gels for downstream applications. Protocol:

- 1- Add Tris-glycine buffer to destain the gel
- 2- Perform your standard procedures for electro-transfert and blotting, or electro-elution to recover proteins non affected by ProSave staining.

Contact your local distributor

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Trouble Shooting:

- Background is too white: the gel may be over-developed. Reduce the reaction time of developing solution B.
- Background is not white enough to visualize the protein bands: increase the developed time with developing solution B.
- Uneven background: make sure to pour developing solution B around the gel. Do not pour developing solution B directly to gel. As soon as solution B is added.

Technical information

ProSave is definitively the best solution to fulfil your requirements of protein staining in acrylamide gels, and more! Not like conventional methods, such as silver stain, Coomassie stain as well as a Rubis stain, taking a few hours to complete.

ProSave enable you to get high quality results within just 5 minutes.

You don't need to learn any complicated procedure, or purchase expensive instrument. It's easy to use, just 2 steps compared to the tedious silver method. As little as 1ng proteins, and up large quantities, even difficult ones, can be detected: sensitivity is same as Rubis, better than Silver, much better than Coomassie. The dynamic range is better than Silver and Coomassie.

Furthermore, ProSave unique technology stains the gel, leaving proteins visible clear against a white background (negative staining). Other methods require dye/protein interactions, which generates inherent staining preferences between protein species, and may affect proteins. ProSave visualize negatively ALL proteins, including glyco-, phospho-, and lipo-proteins and other difficult to stain proteins. Proteins are preserved from dye interactions and fixation, a chief advantage for downstream applications such as MS analysis, sensible proteins with non-denatured gels. ProSave stained gels can be imaged with any transilluminator. Cheaper instrument using visible light can be used.

Besides ProSave detection, proteins from stained gels can be further analysed or recovered: gels can be easily and fully destained in 0-5minutes, for subsequent uses:

- re-staining by any other method
- electrotransfert onto PVDF or NC membranes for immunoblotting
- electroelution for protein recovery
- Mass Spectrometry analysis (ProSave stain has usually higher rate of good annotation)
- amino acid analysis
- N-terminal sequencing

Much more, ProSave also visualizes also nucleic acids (5-100pg DNA, 1µg RNA), making it useful for genomics. In this additional application, the chief advantage over ethidium bromide staining is evident for preparative purposes. The number of transformants notably increased x 3-4 compared to conventional ethidium bromide staining plus UV-irradiation at 312nm.

Finally, ProSave is non toxic to user, stable and cheaper (7.8€/minigel) than fluorescent methods (14€/minigel) and cost effective compared to coomassie (2-3€/minigel) and silver staining .

Related products

- CooBlue™ Instant Protein Gel Stain, UP47255A
- CooBlue™ FX Instant Protein Gel Stain (analytical), UPG4562A
- ProRed™ High Sensitivity Protein Gel Stain, FP-BD3631
- ProGreen™ High Sensitivity Protein Gel Stain, FP-BD3641

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>

Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

Disclaimer : Materials from Uptima are sold **for research use only**, and are not intended for food, drug, household, or cosmetic use. Uptima is not liable for any damage resulting from handling or contact with this product.

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