



Fast Protein In-Gel Staining Solution (PS-001)

Product Information:

Contents: 10x Protein Staining Solution (50mL)

Catalog Number: PS-001

Storage Condition: Stored at 2-8°C;

For research use only

Description:

- **Ultra-fast staining** - no fix and destain steps are required.

Procedure:

Direct In-gel Protein Staining Protocol:

- 1) Electrophorese protein samples in vertical electrophoresis equipment for 10-15 minutes to allow proteins migrate into the stacking gel.
- 2) Turn off the power supply and add 500ul of Protein Staining solution directly to the upper chamber contained approximately 120-150 ml of 1x running buffer.
- 3) Mix thoroughly and continue electrophoresis.
- 4) Remove the stained gel from the electrophoresis apparatus and simply wash gel with distill water for twice.
- 5) Photograph the stained gel or continue gel dry steps for long term storage.

Microwave In-gel Protein Staining Protocol:

1. After electrophoresis, remove the gel from the tank.
2. Place the gel directly in a distill water plastic container (~50 ml H₂O is needed to cover a mini-gel).
3. Add 500ul of protein staining solution and mix well.
4. Microwave for 20-30 seconds or until the solution almost boils.
5. Gentle Shake the gel on an orbital shaker for 3-5 minutes and discard the staining solution.
6. Repeat once from step 2 to step 5.
7. Wash the stained gel once with deionized water for 2 minutes on a rotary shaker.
8. Photograph the stained gel or continue gel dry steps for long term storage.

Protocol for staining protein bands for MS analysis :

- 1) Excise the protein band of interest and transfer to a clean Eppendorf tube.
- 2) Add 1 ml of 30% ethanol or 30% acetone or 30% acetic acid.
(**Note:** Acetic acid may result in acetylation of the N-terminus).
- 3) Incubate for 20min (incubate at 60°C – 70°C to increase the rate of destaining).
- 4) Decant supernatant and repeat step 2&3 at least 3 times or until gel is clear.
- 5) For more detailed protocols please contact your MS facility.

Precautions and Disclaimer:

This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.

Contact us,

Phone: 514-702 7702 Fax: 514-254 5356 Web: www.zmtechscience.com Email: order@zmtechscience.com (For ordering)

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