

SilverPAGE, silver staining kit

Product Description

Cat.Nb: #974090 SilverPAGE staining kit (pre-measured reagents for 20 gels)

- Extraordinary sensitive kit: detection of up to 200pg protein per band in polyacrylamide gels
- Simple protocol for staining nucleic acids or proteins; just one hour!

Storage: All reagents are stable at room temperature for more than one year (X)
Note: The reconstituted silver binding agent should be refrigerated for long-term storage.

Technical and Scientific Information

Techniques involving staining of nucleic acids and proteins using for example ethidium bromide and Coomassie dyes are useful for a wide spectrum of applications, but both methods are limited in their sensitivity. When very low concentrations of nucleic acids or proteins must be detected, silver staining method still provides the most effective alternative. Background is however a common encountered problem.

SilverPAGE kit offers a convenient and efficient reagents, with low background and incomparable sensitivity.

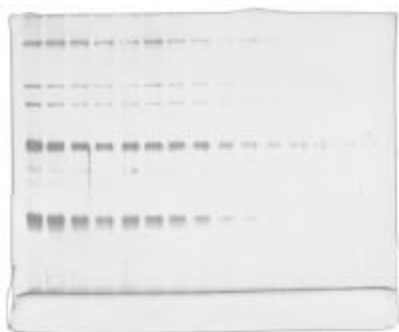
Convenience

SilverPAGE kit provides sufficient, pre-measured reagents for staining 20 gels, along with complete, easy to follow directions for use. All reagents are stable at room temperature, for more than one year.

Performances

As demonstrated in the photo below, sensitivity is excellent. Less than 5ng of protein are easily detected, down to 200pg! DNA results are equally sensitive, with very low background.

Note: for the lowest possible background, please contact InterBioTech for ready-to-use gels.



Broad range MW markers were separated on a 12% PAGE-PLUS gel which was subsequently stained with the SilverPAGE staining kit. Concentrations of proteins, expressed as ng per band, were as follows from left to right: 200, 100, 50, 25, 10, 5 ng... Silver staining was carried out according to the specifications of the kit.

Product Description

Cat.Nb: #974090 SilverPAGE staining kit –qty for
Contains: 4 packs of Silver Binding Reagent
20 packs of Silver Page Developer I
400mg of Silver PAGE Developer II
200ml of 37% Formaldehyde High Purity

- Extraordinary sensitive kit: detection of up to 200pg protein per band in polyacrylamide gels
- Simple protocol for staining nucleic acids or proteins; just one hour!

Storage: All reagents are stable at room temperature for more than one year (L)

Directions for Use

- All incubations should be conducted with **continuous agitation** on a shaker at room temperature
- Prepare **Silver Binding Agent** by reconstituting contents of one pouch in 1L of dH₂O
Note: this solution can be stored refrigerated for long-term storage, at +4°C for up to 6 months
- Just prior to use, prepare **Developing Solution** by reconstituting contents of one pouch in developer I and 15ml of developer II in 200ml of dH₂O. Note: this solution should be prepared fresh every time
- Prepare the **Fixing Solution**: a 30% ethanol/10% acetic acid solution
- Prepare fresh high quality distilled water (dH₂O, 18MegaOhms), as many impurities lead to background.

Staining procedure

- Disassemble plates and fix gel in 200ml of Fixing Solution for 1 hour
- Discard the fixing solution and replace with 200ml of fresh 30% ethanol, for 30 minutes
- Discard Ethanol, and incubate for 10 minutes with 200ml dH₂O, 3 times using fresh dH₂O each time.
- Immediately before staining, add 0.7ml of 37% Formaldehyde to 200ml of reconstituted Silver Binding Agent
- Stain gel by adding the prepared Silver Binding Solution to the gel for 30-40 minutes
- Remove and rinse the gel under a steady stream of dH₂O for 30-60 seconds
- Immediately before developing, add 0.7ml of 37% Formaldehyde to 200ml of Developing Solution
- Add the Developing Solution to the gel and gently shake by hand, allowing development to be monitored.
Develop to desired level
- Reaction can be stopped by adding 200ml of 7.5% acetic acid to the gel for 10 minutes

Related products

Ask also InterBioTech for our extensive line of Electrophoresis reagents (acrylamides and high quality buffers...) to complement your analytical applications in the area of protein research.

For any information, please contact Interbiotech – Interchim

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