



Protocol

5X Concentrate COOMASSIE^{nano} – Protein staining solution

09 Aug 2021

Catalog Number	Size	Concentration
PS002-L05X	1 L	5X

Storage Conditions

Stable for up to 24 months at 25°C.

Description

5X Concentrate COOMASSIE^{nano} - Innovatively developed Next-Generation Protein Stain for faster and environment-friendly gel visualization.

5X COOMASSIE^{nano}, innovatively enhanced by the proprietary nano-technology, is a concentrated, easy-to-reconstitute protein staining solution for SDS-PAGE gels and is also compatible with mass spectrophotometry. Its next generation formula offers faster protein detection and higher sensitivity while eliminating the conventional need for destaining and wash. In the absence of hazardous substances, such as methanol and acetic acid, 5X COOMASSIE^{nano} is considered to be safe and environmentally friendly by reducing carbon footprint by as much as 80%.

Kit Content(s)

Protein staining solution	1 L x 1
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Required materials but not provided

- Container: box for gel staining, bottle for reagent dilution.
- Shaker: orbital or rocking shaker

Reagent dilution

1. Prepare a 5L bottle
2. Unpack PS002-L05X and pour the liquid content into the bottle.
3. Rinse residual reagent in the original bottle with deionized water.
4. Add deionized water until the volume reaches 5L.

Reaction Setup

1. Make 5X Concentrated COOMASSIE^{nano} into 1X COOMASSIE^{nano} protein staining solution.
2. Carefully mix COOMASSIE^{nano} up and down few times before use.
3. After SDS-PAGE has finished, remove the gel from the cassette and submerge it in the proper amount of COOMASSIE^{nano} stain, enough to cover the gel. Lightly agitate the staining box for 10 to 30 minutes at room temperature.



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4. As there is no need for washing or destaining, please continue to carefully remove the staining solution and rinse the excess stain in the gel with water.
5. Image the gel.

Important notes

1. There is no risk of excessive staining. Instead, superior visibility for each band is achieved when the gel is submerged overnight.
2. Carefully mix COOMASSIE^{nano} up and down few times before use.
3. If the gel is thicker than mini-gel (1mm), it will take longer to incubate.
4. The staining solution may contain blue clumps. This is normal and easily dissolved in distilled water