



interchim®

Uptima

FT-1B8100

CooBlue FX Single Step Protein Gel Stain

Ready-to-use Colloidal Coomassie Stain for Proteins in electrophoresis Gels, optimized for analytical applications

Product Description

Name and Description	Product Number, Package Size
CooBlue FX Single Step Stain for Proteins in Gel Ready-to-use 1X solution	1B8100, 500mL (for 20 minigels) 1B810E, 30mL (trial size)
CooBlue FX Single Step Stain for Proteins in Gel (10x) 10X solution to be diluted in water at 1X for working concentration	1B8100, 500mL (for 20 minigels) 1B810E, 30mL (trial size)

Advantages:

- **Fast** staining : 5-15 minutes
- **Single step** staining: NO need to wash SDS, fix or destaining gel
- Very low background even after over night staining or longer.
- High Sensitivity, below 10 ng of Protein per Band
- Non-toxic (no methanol or hazardous acid or solvent)
- **Mass Spec compatible.**

Applications:

2D, SDS-PAGE, Native PAGE, Peptide analysis (Tricine gels with fixation step):

- protein staining for analytical purposes / proteomics
- protein staining for control the efficiency of protein transfer / blotting

Storage:

+4°C, stable for 1 year when stored properly. Shipped at room temperature. DO NOT FREEZE. (H)

Introduction

Coomassie® Blue staining of proteins in SDS-PAGE gels is a daily procedure in many laboratories. It is popular among life science researchers, due to its good sensitivity and relative ease of use. Traditionally, Coomassie Blue staining requires a methanol and acetic acid solution to achieve staining and destaining, with corollary unpleasant pungent odor hazardous risks, and disposal problems. The organic solvent used for destaining also fix the proteins to the gel, making subsequent analysis techniques nearly impossible to perform.

CooBlue FX Stain is a convenient and flexible alternative to traditional Coomassie Blue staining procedures, based on a colloidal formulation. CooBlue Staining exhibits high sensitivity, below 10ng of protein per band (with scanning) making it ideal for most applications including SDS-PAGE and 2D gels.

The mild destaining conditions make CooBlue compatible with downstream applications such as re-staining with other methods, MS analysis, sequencing of proteins from the gel, or blotting the gel.

Directions for Use

Staining Procedure for SDS-PAGE gel:

Before starting: Mix the CooBlue FX protein staining solution vigorously.

Important: This protocol is adjusted for 8x10cm² mini 10% SDS-PAGE (1,4mm thick). Longer procedure is need for thicker or higher percentage SDS-PAGE.

Caution: Use caution while using the stain in a microwave oven. Do not overheat the staining solutions.

After electrophoresis, cut the stacking gel.

Put the gel in a container and add 25mL of CooBlue FX Single Step, 1X solution.
Shake the gel on an orbital shaker for 15 minutes.

Optionally: microwave on High Power for 30 seconds and shake 5 min

Note: Stain intensity reaches a maximum within approximately 1 hour.

Gels may be stained overnight without increased background.

Washing the gel with water can enhance staining sensitivity and increase staining over background.

Notes: After using CooBlue FX protein staining solution, close tightly the cap and store again at 4°C.

DO NOT FREEZE.

For drying the gel after staining uses the Crack free solution kit (U50450).

Troubleshooting:

Problem	Cause	Solution
No band development	Gel is > 1,4 mm thick	Longer staining incubation
	Gel has high polyacrylamide concentration	Longer staining incubation
	SDS interference	Wash the gel with plenty of water before staining
Bands are faint	Lack of sensitivity / protein load	Increase protein load
Undesired bands	Protein contamination	Check gel / buffers preparation
High background	Protein contamination	Check gel / buffers preparation
Staining not homogenous	Bubbles, uncovered edges...	Check for incubation conditions, increase washing and staining volumes

Related products

See [BioSciences Innovations catalogue](#) and e-search tool.

High quality reagents for electrophoresis (acrylamides, buffers...)

[CooBlue Protein Gel stain #UP47255A](#): the version for extraction applications (reversible staining, compatible for electroelution)

[Crack free solution #U50450](#): to dry you gels without hassle cracking.

Ordering information

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

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

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