

PageBlue[™] Protein Staining Solution

#R0571 1 liter (for up to 15 mini-gels)

Lot: **Expiry Date:**

Store: at 4 to 26°C

Description

PageBlue[™] Protein Staining Solution is a ready-to-use solution for a highly sensitive staining of proteins separated in polyacrylamide gels. PageBlue[™] contains Coomassie Brilliant Blue G-250 dye. Due to the property of the dye to form colloidal particles, proteins are preferentially stained without significant staining of the gel matrix. The linear dynamic range of PageBlue[™] extends over two orders of magnitude which is superior to Coomassie R-250. The stain does not contain toxic methanol and acetic acid.

Sensitivity

5 ng BSA in 12% SDS-PAGE, 0.75 mm gel, well width 3 mm.

PRODUCT USE LIMITATION.

This product is developed, designed and sold exclusively *for research purposes and in vitro use only*. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals. Please refer to www.fermentas.com for Material Safety Data Sheet of the product.

STAINING PROTOCOL FOR MINI-GELS

Step	Action	Time
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Fast Protocol

1	Wash the gel in 100 ml of deionized or distilled water. Microwave in an open tank on high power for 1 min. Discard the wash. Repeat 3 times	3 x 5 min
2	Add 20 ml (or enough to completely cover the gel) of PageBlue™ Protein Staining Solution, microwave for up to 30 seconds on high power (do not boil). Stain with gentle agitation.	20 min
3	Wash the gel in deionized or distilled water	5 min

Total time: **40 min**

Conventional Protocol

1	Wash the gel 3 times in 100 ml of deionized or distilled water.	3 x 10 min
2	Stain with 20 ml (or enough to completely cover the gel) of PageBlue™ Protein Staining Solution with gentle agitation.	60 min (or overnight)
3	Wash the gel in deionized or distilled water	5 min

Note

- Large gels require more staining solution, as gels should be completely immersed in it. When several gels are stained, increase the amount of staining solution accordingly.
- Washing step 1 is dedicated to removing of SDS from the gel as SDS interferes with staining. Since native gels do not contain SDS, this step is omitted.
- Staining sensitivity can be increased if the proteins are fixed by 12% trichloroacetic acid or alternatively with 25% isopropanol and 10% acetic acid for 15 min. Fixation prevents diffusion especially of small proteins from the gel and accelerates SDS removal.
- Staining sensitivity using the Fast and Conventional protocol is comparable.
- PageBlue™ Protein Staining Solution can be reused up to three times without noticeable decrease in sensitivity.

QUALITY CONTROL

Tested for staining sensitivity in mini-gels using Protein Molecular Weight Marker.

Quality authorized by:

 Jurgita Zilinskiene

For SAFETY INFORMATION see back page

SAFETY INFORMATION



PageBlue™ Protein Staining Solution

Xi Irritant

Risk phrases

R10 Flammable.

R36/38 Irritating to eyes and skin.

Safety phrases

S7 Keep container tightly closed.

S16 Keep away from sources of ignition - No smoking.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60 This material and its container must be disposed of as hazardous waste.

(3) Revised 01.03.2007