

SuperBlue™ Protein Stain Solution

CAT. NO. SB-100-0010, 1 LITER

APPLICATION

Detection of proteins in native and SDS-PAGE gels.

DESCRIPTION

SuperBlue is a proprietary formulation of Coomassie G-250 solution. The new developed formulation allows detection of proteins in native and SDS-PAGE gels within several minutes using microwave heat method. SuperBlue is environment safe and does not contain hazardous chemicals such as methanol and acetic acid.

SENSITIVITY

Detection of protein as low as 15 ng can be achieved within 10 min. Sensitivity can be further increased with extended incubation of stain buffer and repeated washing steps.

STORAGE

Room temperature, stable at least 1 year.

SUPERBLUE INSTRUCTIONS

- 1) Place a standard mini gel in a microwavable container with 100-200 ml of deionized water (or sufficient amount) to cover the gel and heat gel until the solution almost boils (1-2 mins, full power). Discard the water.
- 2) Repeat step 1 at least once.
- 3) Submerge the gel in 20 ml (or sufficient amount) of SuperBlue solution. Loosely cover the box and microwave the gel for 30-50 second (high setting).
- 4) Leave the gel on bench for 1-2 min or shake at RT for overnight (for very low amounts of protein detection). Decant stain. Add 200 ml of deionized water.
- 5) **For crystal clear background:** SuperBlue leaves a light-blue background which does not affect the sensitivity of detection on the gel. If you want to get crystal clear background gel, wash the gel with 100 ml of deionized water heated by microwave 1-2 min until the solution almost boils. Discard the water and repeat 2-3 times.
- 6) SuperBlue detects protein as low as 15 ng in native and SDS-PAGE within 10 minutes using the heating procedure. It is possible to increase the sensitivity of detection to 10 ng and for some protein to as low as 5 ng. To achieve this, repeat the gel heating procedure (step 3) once with new stain buffer and incubate at room temperature with shaking overnight; then go to step 5.

