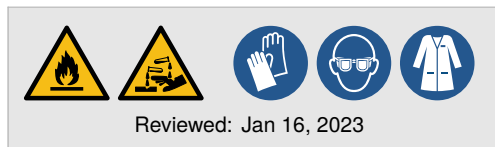


In-gel protein staining with Coomassie Brilliant Blue

Coomassie Brilliant Blue is a pigment used to stain proteins in acrylamide or agarose gels with a detection limit of 10–20 ng per band. The staining is permanent and incompatible with Western blotting. However, Coomassie G-250 (not R-250) can also be used to visualize proteins on PVDF or nitrocellulose membranes. While silver staining [SOP0011](#) offers higher sensitivity, Coomassie-stained gels are compatible with downstream mass spectrometry.

This is a bench card. Full protocol available online.



Procedures

>> **Coomassie Brilliant Blue staining**

- | | |
|--|---|
| <input type="checkbox"/> Incubation tray | <input type="checkbox"/> R0123 Coomassie destaining solution, 20 mL |
| <input type="checkbox"/> Lint-free wipe | <input type="checkbox"/> R0124 Coomassie staining solution, 20 mL |

- (1.) *Optional:* Place gel in a container with water. Microwave at 1 000 W for 1 min. 📖
- (2.) Transfer gel into a tray with Coomassie staining solution. Rock gently at room temperature for 15 min. 🕒 15 min
- (3.) Discard staining solution. Rinse briefly with water to remove excess dye. 🗑️
- (4.) Add Coomassie destaining solution. Rock at room temperature for 45 min. 🕒 45 min
- (5.) Pour off the destaining solution into a collection bottle for reuse. Replace with water and add a lint-free wipe in the tray to soak up free dye. Destain overnight until background disappears. 🗑️
🌙

[🔗](#) Recipe (available online) [🗑️](#) Troubleshooting (available online) [📖](#) Notes (available online)

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