

Coomassie® Brilliant Blue R-250**PG- PG-2740-25G**

Coomassie® Brilliant Blue R-250 is a high-purity anionic dye widely used in protein analysis, electrophoresis, and biochemical research laboratories. It is the standard stain for visualizing proteins separated by polyacrylamide gel electrophoresis (PAGE) and SDS-PAGE, providing high sensitivity, excellent reproducibility, and clear protein band detection.

Parameter	Specification
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Product Name	Coomassie® Brilliant Blue R-250
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Chemical Name	Brilliant Blue R-250
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Molecular Formula	C ₄₅ H ₄₄ N ₃ NaO ₇ S ₂
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Molecular Weight	826.0 g/mol
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Appearance	Dark blue to purple powder
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Purity (Dye Content)	≥ 90%
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Solubility	Soluble in water, methanol, ethanol, and acetic acid solutions
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Absorption Maximum (λ_{max})	Approximately 555–565 nm
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CAS Number	6104-59-2
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EC Number	228-060-5
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Storage Condition	RT
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Safety

Harmful if inhaled, swallowed, or absorbed through skin. Suspected carcinogen. May cause liver, kidney, and central nervous system damage following prolonged or repeated exposure. Use in a well-ventilated area and wear appropriate PPE including gloves, lab coat, and safety goggles. Avoid contact with skin, eyes, and clothing. Store away from heat and incompatible materials.