

COOMASSIE® BRILLIANT BLUE G-250, 25G**PG-5160-25G**

Coomassie® Brilliant Blue G-250 is a highly sensitive protein-binding dye widely used in protein analysis and quantification. It is the key reagent in the Bradford protein assay and is commonly used for staining proteins following electrophoresis. Its reliability, sensitivity, and ease of use make it a standard reagent in biochemistry, molecular biology, and proteomics laboratories..

	Details
Product Name	COOMASSIE® BRILLIANT BLUE G-250
Description	A triphenylmethane dye widely used for protein staining in electrophoresis gels and as the color reagent in the Bradford protein assay for protein quantification.
Molecular Weight	854.02 g/mol
Appearance	Dark blue to violet-black crystalline powder
Formula	$C_{47}H_{48}N_3NaO_7S_2$
Solubility	Soluble in water, methanol, ethanol, and DMSO
pH (1% Solution)	Approximately 6.0–7.0
CAS Number	6104-58-1
Storage Condition	Store at room temperature (15–30 °C) in a tightly closed container. Protect from moisture, heat, and direct light.
Applications / Uses	Used for protein staining in SDS-PAGE and native PAGE gels, Bradford protein assay, electrophoresis applications, and general biochemical and molecular biology research.
Safety	.

Coomassie Brilliant Blue G-250 is generally considered a low-to-moderate hazard laboratory dye. It may cause mild irritation to the eyes, skin, and respiratory tract. Avoid inhalation of dust and contact with skin or eyes. Wear appropriate PPE including gloves, laboratory coat, and safety goggles. In case of contact, rinse thoroughly with water. Store in a tightly closed container away from strong oxidizing agents. Dispose of according to institutional and local laboratory waste regulations