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# DATASHEET

Brilliant Blue R-250

## **Product overview**

Name	Brilliant Blue R-250
Cat No	HB0739
Alternative names	Brilliant blue R; Coomassie brilliant blue R-250; Acid Blue 83; CI 42660
Biological description	Red tinted form of coomassie dye. Key tool for various colorimetric protein gel stains. Used to stain and quantify proteins.
Biological action	Dyes & stains
Purity	>90%
Description	Key tool for staining and quantifying proteins

### Images



## **Biological Data**

**Application notes** 

#### **#Protocol 1: Brilliant Blue R-250 staining of rat brain fractions.**

- P2 membrane and cytosol fractions were prepared from rat brains following established protocols (Molnar et al., 1993. Neuroscience 53:307-326).
- SDS-PAGE was conducted following standard protocols (Laemmli., 1970. Nature 227:680-685) using a 10% acrylamide gel.
- Staining and de-staining solutions were prepared as:

• Staining:	Reagent Brilliant Blue R-250 (HB0739) Methanol Acetic acid			<b>Concentr</b> <b>ation</b> 0.025% 40% 7%		Amount for 250ml 62.5mg 100ml 17.5ml	
	dH <sub>2</sub> O			53%		132.5ml	
• De-staining:		Reagent		Concen ration	t	Amount for 250ml	
		Methanol		50%		125ml	
		Acetic acid		7%		17.5ml	

• The gel was incubated in staining solution for 20 minutes followed by incubation in destaining

solution for 3 hours with multiple changes of solution.

· Imaging was conducted using a Epson 4180 Photo scanner

## **Solubility & Handling**

Storage instructions Solubility overview Important Room temperature Water (10mM) This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

## **Chemical Data**

Chemical name Molecular Weight Chemical structure Brilliant blue R; Coomassie brilliant blue R-250; Acid Blue 83; CI 42660 825.99

C45H44N3O7S2Na

Molecular Formula CAS Number PubChem identifier SMILES

6104-59-2 61365 CCN(CC1=CC(=CC=C1)S(=O)(=O)[O-])C2=CC=C(C=C2)C(=C3C=CC(=[N+](CC)CC4=CC(=CC=C4)S(=O)(=O)[O-])C=C3)C5=CC=C(C=C5)NC6=CC=C(C=C6)OCC.[Na+]

## References

Colorimetric protein assay techniques.

Sapan CV *et al* (1999) Biotechnol Appl Biochem 29 ( Pt 2) **PubMedID** 10075906

Spectrophotometric and colorimetric determination of protein concentration.

Simonian MH *et al* (2006) Curr Protoc Mol Biol Chapter 10 **PubMedID** 18265371