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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

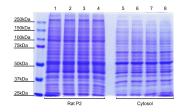
quantify proteins.

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:

50ml

- 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 Storage of solutions Room temperature Water (10mM)

Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

**Shipping Conditions** 

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

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

C<sub>45</sub>H<sub>44</sub>N<sub>3</sub>O<sub>7</sub>S<sub>2</sub>Na

Molecular Formula CAS Number PubChem identifier

6104-59-2 61365

SMILES

CCN(CC1 = CC(=CC = C1)S(=O)(=O)[O-])C2 = CC = C(C=C2)C(=C3C = CC(=[N+](CC)CC4 = CC(=CC=C4)C(=CC)C(=C

)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