

## Coomassie Brilliant Blue R-250

CAS Number: 6104-59-2

Storage Temperature: Room Temperature

### **Product Description :**

Appearance: Blue to red crystalline powder

Molecular formula:  $C_{45}H_{44}N_3O_7S_2Na$

Molecular weight: 825.99

Purity: Dye content approximately 65%

Brilliant Blue R has been used for many years for staining proteins on polyacrylamide electrophoresis gels. Improvement of sensitivity and background have been accomplished using Brilliant Blue dyes in a colloidal form. The Brilliant Blue R-Protein complex has an absorption maximum between 560 and 575 nm. (Scanning is usually done at 570 nm.) The staining intensity of proteins may be related to the basicity of the protein involved.

Other applications for brilliant Blue R include use in detection of lipids in thin layer chromatography, determination of the CMC of detergents, and detection of proteins in solution, as well as on cellulose acetate plates.

The most common staining solution is 0.25% Brilliant Blue R in 40 % methanol plus 7 % acetic acid in deionized water.

### **Preparation Instructions :**

Staining solutions at 0.25% in 40% methanol plus 7% acetic acid in deionized water remain suitable for staining PAGE gels stored at room temperature for at least two months.

### **Storage/Stability:**

Recommended storage is at room temperature. The minimum shelf-life should be three to five years.

### **Precautions and Disclaimer :**

For Laboratory Use Only. Not for drug, household or other uses.