PRODUCT SPECIFICATION SHEET

# Coomassie Blue G-250 Stain

**Catalog Number:** C001-1000 **Size:** 1000 mL **Form:** Liquid, ready-to-use

## 1. Product Description

CELLPICK Coomassie Blue G-250 Stain is a ready-to-use, colloidal staining solution designed for fast, highly sensitive, and convenient protein detection in polyacrylamide gels. Its optimized formulation ensures exceptional signal-to-noise ratios and clean backgrounds.

Unlike traditional R-250 stains, this colloidal G-250 formulation selectively binds to proteins rather than the gel matrix, virtually eliminating the need for prolonged destaining steps. It delivers high sensitivity, capable of detecting as little as 8–10 ng of protein per band, while saving preparation time and ensuring reproducibility across experiments.

## 2. Specifications

| | |
|---|---|
| **Composition** | 10% Acetic acid, 0.1% Coomassie blue G-250, Stain solution |
| **Form** | Liquid, ready-to-use |
| **Appearance** | Dark blue liquid |
| **Storage Conditions** | 2–8°C (Refrigerated) |

## 3. Recommended Applications & Usage

This product is extensively used for protein visualization and quantification following electrophoresis. Key applications include standard SDS-PAGE protein visualization, two-dimensional (2D) gel electrophoresis, and post-electrophoresis protein quantification. It is also compatible with downstream mass spectrometry (MS) analysis.

**Usage:** Following electrophoresis, immerse the gel in sufficient staining solution and agitate gently at room temperature for 1–2 hours. Destaining is typically not required; however, washing the gel with deionized water or a weak acetic acid solution can further enhance background clarity.

## 4. Ordering Information

| Catalog Number | Product Name | Packaging Unit |
|---|---|---|
| C001-1000 | Coomassie Blue G-250 Stain | 1000 mL |