



## **PRODUCT INFORMATION**

### **Coomassie Blue Stain Solution (Cat# CBS-0500)**

#### **Introduction:**

The solution is an enhanced protein stain that is based on Coomassie dye that offers unsurpassed sensitivity and rapid band visualization. Protein bands are visible in as little as 10 minutes, with maximal staining achieved in one hour, can detect protein levels as low as 4 ng BSA. 60-1000 ng of BSA is detectable in 5-10 minutes and the low levels of BSA (4-8 ng) become clearly visible when washed in water. The solution is supplied in a ready-to-use format, which is added directly to protein gels following electrophoresis after a brief wash step. The solution do not use methanol, acetic acid, or other toxic agents and works with native PAGE, SDS-PAGE, isoelectric focusing, or 2D gels.

#### **Component:**

Stain Solution: 500ml

#### **Procedure:**

- 1 Wash gel 3 times for 5 minutes in deionized water to remove SDS present in the gel. Each wash should be in large volumes of water. For gels without SDS, a single wash in deionized water is sufficient. Note: Isoelectric focusing gels require prefixing in 20% trichloroacetic acid for 30 minutes, followed by extensive washing to remove TCA.
- 2 Remove all free water from the gel.
- 3 Add an adequate amount of Stain Solution to cover the gel. Gently shake the gel in Stain Solution for 1 hour. Protein bands will be visible within 10 minutes and reach a maximum intensity within 1 hour. Longer incubation may be performed and will not increase the background.
- 4 Rinse the stained gel in a large volume of deionized water, 2-3 times for 10-15 minutes each. Rinsing in deionized water enhances the intensity of the protein bands. Store the stained gel in deionized water. Note: If background staining is noticed, it is indicative of residual SDS in the gel. Rinsing the gel extensively in deionized water will remove the background staining.

#### **Storage:**

It is shipped at ambient temperature. Store it at room temperature upon arrival.