LAMDA BIOTECH

PRODUCT INFORMATION

Catalog No.: **G003**

Product Name: **Protein Gel SafeStain**

Size: **For 1000ml**

Description: **Protein Gel SafeStain** is a highly sensitive fluorescent stain designed for detecting proteins in polyacrylamide gels. Compared to traditional Coomassie® blue stain,

Protein Gel SafeStain has the following advantages:

- **Higher sensitivity:** Detecting as little as 0.2 ng protein.
- **Simple and fast:** As short as 60 minutes is needed for staining.
- **Compatibility:** Compatible with MS and protein sequencing.
- **Wide linear detection range.** At least three orders of magnitude.

Detecting: The **Protein Gel SafeStain** has two excitation wavelength peaks of 300nm and 460nm; and an emission wavelength of 600nm. So the stained proteins can be viewed and pictured using UV transilluminator, blue light transilluminator or a laser scanner.

Storage: Store under dark at 4^{o}C or room temperature.

Staining Protocol:

Prepare the Protein Gel SafeStain Solution (1X):

1. Use a clean bottle, add and mix 600ml of water, 300ml of methanol, and 100ml of acetic acid.
2. Transfer the entire content of the **Protein Gel SafeStain** from the tube (1ml) to the above solution.
3. Mix well and store this **Protein Gel SafeStain Solution** at room temperature or at 4 °C, protecting from light.

Protein Gel Staining:

Note: The protocol is optimized for mini protein gels with 1mm thickness. For larger or thicker protein gels, the volume of **Protein Gel SafeStain Solution** should be increased accordingly; and longer incubation time will be needed.

1. **Run** protein gel as usual according to your standard protocol.
2. **Stain** the gel with the1X **Protein Gel SafeStain Solution** (50-80ml may be needed) at room temperature for 60 min with shaking. ***Note:*** longer staining will not damage the final result, and sometime will be recommended.
3. **Wash** gel with 100ml of **Protein Gel Wash Solution** (prepared before use as a mixture of 60ml of water, 30ml of methanol and10ml of acetic acid) for 20 min with shaking. ***Note:*** longer than 20 min wash will not affect the final result, and sometime will be encouraged.
4. **View and taking picture** of the stained gel using a 300nm UV transilluminator, blue light transilluminator or a laser scanner.

This Product is For Research Use Only

For the proper disposal of this product, follow your University and / Or Company's waste disposal Guidelines.