

# EZ-Gel Staining Solution

Cat. No. DG-GS1000

FOR RESEARCH USE ONLY.

NOT FOR USE IN DIAGNOSTIC PROCEDURES.

## ▪ Product Description

Polyacrylamide gels from SDS-PAGE or 2D electrophoresis can be used to detect proteins with various staining methods. Techniques such as Coomassie Blue (G-250) staining and silver staining allow for the detection and quantification of target proteins.

The EZ-Gel Staining Solution is a staining solution utilizing the Coomassie Blue (G-250) method, allowing for visualization of protein bands within approximately one hour. It is convenient to use as it does not require a separate de-staining solution. Additionally, it does not cause over-staining even during prolonged staining periods and contains no methanol or acetic acid, resulting in reduced odor and lower toxicity compared to other products. Furthermore, amino acid sequence analysis (e.g., MS/MS, MALDI-TOF) can be performed on the stained gel.

## ▪ Contents

| Component                     | Volume  |
|-------------------------------|---------|
| Gel Staining Solution mixture | 1000 mL |

## ▪ Storage and Stability

Store refrigerated at 2–8°C; stable for approximately 2 years from the date of manufacture.

## ▪ General Protocol

1. After electrophoresis (SDS-PAGE, 2D electrophoresis), remove the gel from the plate.
2. Transfer the separated gel to a tray (plastic, glass, etc.).
3. Add EZ-Gel Staining Solution to the container with the gel, place it on a shaker, and allow it to react.

\* Add enough EZ-Gel Staining Solution to fully submerge the gel and allow it to float.

Ex.) For an 8 cm x 10 cm mini gel, approximately 30 mL is recommended.

4. The staining effect begins to appear immediately, and results can usually be obtained within about 15 minutes.

\* For clearer results, staining for about 1 hour is recommended.

5. After staining, wash the gel several times with distilled water (D.W.) and store as needed.

\* Depending on the condition of the gel, a light blue background may appear. However, this can be removed with additional washing in D.W. to obtain a clear band.

\* The used EZ-Gel Staining Solution can be reused approximately 2–3 times.  
(Transfer to a new container and store refrigerated.)

## ▪ Notice

1. Adjust the amount of EZ-Gel Staining Solution according to the size of the gel.

2. Washing the gel with distilled water (D.W.) before staining can remove any residual SDS, leading to cleaner bands.

\* If there is too much SDS remaining on the gel, staining may not be as clean.

3. Using a de-stain solution after staining is optional. However, the gel may shrink after de-staining, but it will return to its original size when placed in D.W.

4. Do not mix used staining solution with unused solution, as this may reduce the product's activity.

5. Storing the product at room temperature or high temperatures for extended periods may result in a high background after staining. Be sure to store the product refrigerated.

## ▪ Related Product

| Product  | Catalog No. | size   |
|--|-------------|--|
| EZ-Western<br>( Nano~mid picogram )                    | DG-W100     | 100 mL (A: 50 mL + B: 50 mL)   |
|  | DG-W250     | 250 mL (A: 125 mL + B: 125 mL)                                       |
|  | DG-W500     | 500 mL (A: 125 mL X 2 + B: 125 mL X 2)                               |
| EZ-Western Lumi Pico<br>( Low picogram )               | DG-WP100    | 100 mL (A: 50 mL + B: 50 mL)   |
|  | DG-WP250    | 250 mL (A: 125 mL + B: 125 mL)                                       |
|  | DG-WP500    | 500 mL (A: 125 mL X 2 + B: 125 mL X 2)                               |
| EZ-Western Lumi Pico Alpha<br>( Low picogram )         | DG-WPAL120  | 120 mL (A: 60 mL + B: 60 mL)   |
|  | DG-WPAL250  | 200 mL (A: 125 mL + B: 125 mL)                                       |
| EZ-Western Lumi La<br>( Mid femtogram, Long duration ) | DG-WD100    | 100 mL (A: 50 mL + B: 50 mL)   |
|  | DG-WD200    | 200 mL (A: 100 mL + B: 100 mL)                                       |
| EZ-Western Lumi Femto<br>( Low femtogram )             | DG-WF100    | 100 mL (A: 50 mL + B: 50 mL)   |
|  | DG-WF200    | 200 mL (A: 100 mL + B: 100 mL)                                       |
| EZ-Western Membrane Tray                               | DG-WMT8     | 1 set (8 EA, 10 X 6 X 2 cm)  |
| EZ-Western Stripping Buffer                            | DG-WSB500   | 500 mL   |
| 3-Color Regular Range Protein Marker, 10-245kDa        | DG-PMC245   | 250 $\mu$ l x 2  |
| 3-Color Broad Range Protein Marker PLUS, 5-245kDa      | DG-PMP245   | 250 $\mu$ l x 2  |
| EZ-BCA Protein Quantification Kit                      | DG-BCA500   | Reagent A : 500 mL<br>Reagent B : 25 mL<br>Standard Sol. : 1 mL X 10 |
| EZ-Bradford Assay Dye Reagent                          | DG-BRA500   | Reagent : 500 mL<br>Standard Sol. : 1 mL X 10                        |
| EZ-Gel staining solution<br>( without de-staining )    | DG-GS1000   | 1000 mL  |