

WSE-7110

# EzWestLumiOne Operating Instructions

## 1. Precautions for safe use of this product

To use this product safely, please read this instruction manual carefully first. Please refrain from operating the product until you fully understand the contents of this instruction manual. This instruction manual describes only how to use this product for the specified purpose. Please refrain from using the product for purposes or in ways not described in this instruction manual. If you use the product for purposes or in ways not described in this instruction manual, you are solely responsible for all necessary safety measures and unforeseen circumstances. Also, please carefully read and understand the instruction manuals of any devices you will be using at the same time.

## 2. Purpose of Use

This product is a luminol-based luminescent substrate used for detection with HRP (horseradish peroxidase)-labeled antibodies in Western blotting analysis.

## 3. Product Configuration

name	capacity	Quantity
EzWestLumiOne	250mL	1

## 4. Composition

name	Main components
EzWestLumiOne <sup>e</sup>	Luminol, enhancers, stabilizers, hydrogen peroxide, buffer solutions

This Product does not contain any poisonous or deleterious substances under the Poisonous and Deleterious Substances Control Law, or any substances subject to notification that exceed the exemption amounts stipulated under the Industrial Safety and Health Law or the PRTR Law. For details, please download the SDS for this product from the ATTO website (<https://www.atto.co.jp/>).

## 5. Storage Method

EzWestLumiOne should be stored in a dark place and refrigerated (4-10 °C). If it is unopened, it is stable until the expiration date.

## 6. Disposal Method

Dispose of each reagent in accordance with the disposal method of your affiliated institution.

Bottle material: Body: Polyethylene

Lid: Polypropylene

## 7. Items required other than this product

- Electrophoresis gel
- Blotting membrane, filter paper
- Electrophoresis Reagents  
(Sample buffer, electrode solution, etc.)
- Western Blotting Reagents  
(Transfer buffer, blocking reagent, antibody diluent, washing solution, etc.)
- Primary antibody against the protein of interest and HRP- conjugated secondary antibody
- Electrophoresis Equipment
- Semi-dry blotting device
- Seesaw Shaker
- tweezers
- Chemiluminescence photography device

## 8. Precautions for Use

- Please store this product in a dark place and in a refrigerator. Please note that leaving it at room temperature for a long period of time may cause deterioration.
- Use the antibody dilution rates recommended by the antibody manufacturer or use primary antibodies at 1/1,000 to 1/10,000 and secondary antibodies at 1/50,000 to 1/200,000.

## 9. Usage

1. Take out the **EzWestLumiOne** from the refrigerator. The amount of luminescence reagent required per mini gel size (85mm x 90mm) blotting membrane is 5mL.

\*The required amount of luminescent reagent is 50 to 100  $\mu\text{L}$  /  $\text{cm}^2$ .

2. After reacting with the HRP- labeled antibody, wash the blotting membrane thoroughly with a washing buffer such as **EzTBS**.

\*Insufficient washing may result in high background levels.

3. Place the required amount of **EzWestLumiOne** into a clean tray (larger than the membrane).

\*You can also use plastic wrap instead of a tray.

4. After washing, immerse the blotting membrane in **EzWestLumiOne** for a few seconds. Please make sure that **EzWestLumiOne** is distributed evenly across the entire blotting membrane.

\*Please note that if the blotting membrane is not evenly immersed in **EzWestLumiOne** , it may cause foamy background or unevenness.

5. Place the blotting membrane in a clear film or plastic wrap, making sure not to trap any air.

\*Please note that if air gets between the blotting membrane and the film, it may cause a bubble-like background or unevenness.

\*When wrapping the membrane in plastic wrap, please note that wrinkles in the wrap may form on the surface of the blotting membrane, which may result in wrinkled background or unevenness.

6. The blotting membrane after reaction with **EzWestLumiOne** is photographed using a Chemiluminescence imaging device.

\*The imaging time varies depending on the concentration of the sample, the titter of the antibody, and the dilution rate. Please consider this for each experiment.

\*Please contact each manufacturer for instructions on how to use the Chemiluminescence imaging device.

## 10. References

Even with the same blotting protocol, slight differences in technique can greatly affect results. Tips and tricks are also important for obtaining optimal results.

Please read the "Tips for Western Blotting" which can be downloaded from the Atto website.

<https://www.atto.co.jp/>

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## ATTO CORPORATION

3-2-2 Motoasakusa, Taito-ku, Tokyo 111-0041, JAPAN

Tel +81 3 5827 4863 / Fax +81 3 5827 6647

E-mail: [eig@atto.co.jp](mailto:eig@atto.co.jp)

<http://www.atto.co.jp/eng>

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