

## Western Blot instructions for membrane regenerating solution

**Item No.** SW3020

**Specification:** 100mL/500mL

**Storage:** 2-8°C, valid for one year.

### Product Information:

Multiple Western Blot tests can be performed on the same membrane using membrane regeneration solution. Soaking the used membrane in the membrane regeneration solution for 10-60 minutes at room temperature will remove bound antibodies from the membrane without affecting the antigen proteins. Subsequently, the next round of Western Blot experiments can be performed using different antibodies. It is appropriate to test different proteins from a small sample many times. Even if the sample size is not scarce, using this strategy to detect proteins on the same membrane multiple times can eliminate costly steps such as drug administration, protein electrophoresis and membrane transfer. Moreover, the error caused by re-sampling can be eliminated, and the comparability is stronger.

Western Blot film regenerated liquid features: non-toxic, tasteless and harmless, used at room temperature, room temperature storage; The same film can be tested by Western Blot for more than 5 times.

Application: Remove bound antibodies from nitrocellulose or PVDF membranes without affecting antigenic proteins.

### Usage (for reference only) :

1. Fully soak the membrane in the appropriate volume of regenerated liquid, elution at room temperature for 10-30min, the length of time should be optimized according to the precautions, elution of some antibodies takes a longer time, more up to 60min, it is **recommended to heat the membrane regenerated liquid to 50 degrees**, and **eluate under the condition of 50 degrees** water bath.
2. Take out the membrane and rinse twice with washing solution (such as TBST, etc.).
3. At this time, the antibody has been removed from the membrane, and another antibody can be added for detection after re-sealing.

### Notes:

1. The essence of the membrane regeneration solution is to eluate the antibody without affecting the antigen bound on the membrane. In actual operation, the type of membrane, the type of antibody, the concentration and the characteristic of the antigen all affect the elution difficulty.
2. Suitable for Western detection of ECL and similar chemiluminescent reagents. Not suitable for Western tests performed by non-chemiluminescent reagents, such as DAB, NBT/BCIP.
3. After ECL color development, the regenerated solution can be elution for a few minutes, and the ECL color development solution can be added again for development. If strips are displayed on the film, indicating that the antibody has not been cleaned, it must be further soaked in the regenerated solution until there is no color development on the film.

4. The film closed with skimmed milk powder is easier to regenerate than the film closed with BSA.
5. Try to avoid letting the membrane dry.
6. **This product is not suitable for all antibodies. For those with strong membrane specificity, medium and strong regeneration solution (SW3021, SW3022) is recommended.**

**Related products:**

*PR1800 Western blotting protein MARKER*

*PE0010 ECL Plus Fluorescence Detection Reagent (ECL Supersensitive Luminescent Liquid)*

*P1015 4× Protein Loading buffer (including DTT)*

*T1080 20×TBS*

**Related literature:**

- [1] Xiaolin Huang,Lieyu Huang,Yuting Cheng,et al. Zoledronic acid inhibits osteoclast differentiation and function through the regulation of NF-κB and JNK signalling pathways. International Journal of Molecular Medicine. May 2019. (IF 2.928)

**Note: For more information on the use of this product, please refer to the Solarbio website.**