Rapid Blocking Buffer (TBS-T, powder)

Introduction

Rapid Blocking Buffer (TBS-T, powder) consists of off-white to light yellow instant granules. Each bag can be used to prepare 100 mL of blocking solution with easy operation. Its main component is carefully processed fish gelatin protein. When prepared as a 1× working solution, the protein content is 5%. This product is used for the antibody blocking step in Western Blot and ELISA, and is provided in a TBS-T buffer (containing Tween20 detergent) format.

Rapid Blocking Buffer (TBS-T, powder) utilizes fish gelatin protein, which is compatible with the vast majority of proteins, offering excellent reaction performance and compatibility. It can complete blocking within 15 minutes, shortening the user's experimental time. This product is pre-mixed with TBS-T for ease of use. The presence of the detergent Tween20 enhances blocking efficiency in many Western Blot detection reactions.

Protocol

- Preparation of 1× Rapid Blocking Buffer (TBS-T, powder)

  a. Measure approximately 600 mL of distilled water into a beaker, and place a magnetic stir bar in the beaker.

  b. Place the beaker on a magnetic stirrer, slowly add the entire contents of one bag of Rapid Blocking Buffer (TBS-T, powder) instant granules, and stir the solution until completely dissolved.

  c. Add distilled water to the blocking solution from step 2 to bring the final volume to 100 mL; this yields 1× solution.

- Blocking Procedure

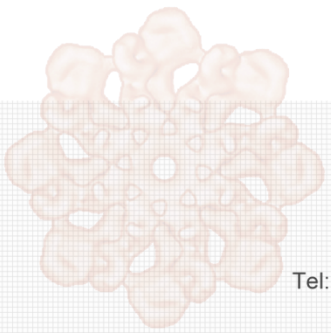
  a. After transfer is complete, place the membrane into a hybridization incubation box. Add 10–20 mL of pre-prepared 1× Rapid Blocking Buffer (TBS-T, powder) to cover the membrane surface. Incubate on an orbital shaker at room temperature for approximately 10 minutes.

***Note:** This product provides significantly better blocking performance in 10 minutes than conventional BSA blocking for 1 hour. For antibodies that yield high background, try extending the blocking time to 30–60 minutes.

  b. The blocked membrane is now ready for subsequent experiments such as primary antibody incubation.

Note

1. This product is for scientific use only.



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