Pierce™ Protein-Free Blocking Buffers

Catalog Numbers 37585, 37570, 37571, 37584, 37572, 37573

Doc. Part No. 2161783 Pub. No. MAN0011566 Rev. B.0

WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from thermofisher.com/support.

Product description

Thermo Scientific™ Pierce™ Protein-Free blocking buffers contain a protein-free compound for blocking excess binding sites in ELISA, western blotting, arrays, and other immunochemical applications. These blocking buffers reduce or eliminate many of the problems encountered with traditional protein-blocking reagents, such as cross-reactivity and interference from glycosylation. Additionally, Protein-Free blocking buffers are compatible with antibodies and avidin/biotin systems. For ease of use, Protein-Free T20 blocking buffers contain the detergent Tween™-20, which improves blocking performance in many detection systems.

Contents and storage

Product	Cat. No.	Amount	Storage
Pierce™ Protein-Free (TBS) Blocking Buffer, protein-free compound in Tris-buffered saline, pH 7.4[1]	37585	100 mL	Room termperature. Afer opening, store at 4°C.
Pierce™ Protein-Free (TBS) Blocking Buffer, protein-free compound in Tris-buffered saline, pH 7.4[1]	37570	1 L	
Pierce™ Protein-Free T20 (TBS) Blocking Buffer, protein-free compound in Tris-buffered saline, pH 7.4 with 0.05% Tween™-20 Detergent[1]	37571	1 L	
Pierce™ Protein-Free (PBS) Blocking Buffer, protein-free compound in phosphate-buffered saline, pH 7.4[1]	37584	100 mL	
Pierce™ Protein-Free (PBS) Blocking Buffer, protein-free compound in phosphate-buffered saline, pH 7.4[1]	37572	1 L	
Pierce™ Protein-Free T20 (PBS) Blocking Buffer, protein-free compound in phosphate-buffered saline,pH 7.4 with 0.05% Tween™-20 Detergent[1]	37573	1 L	

[1] With Kathon™ Antimicrobial Agent

Procedural guidelines

- The usage as described in these instructions may differ from other blocking solutions.
- Pierce™ Protein-Free blocking buffers are supplied in ready-to-use format. Iit is not recommended to dilute the blocking buffer.
- A final concentration of 0.05% Tween™-20 Detergent in the blocking buffer can Improve blocking performance; however, it is not required for recommended for all systems. Use only high-quality products such as Thermo Scientific™ Surfact-Amps™ 20 (Cat. No. 28320), which is a specially purified Tween™-20 Detergent free of peroxides and carbonyls that may interfere in some systems. The Pierce™ Protein-Free T20 blocking buffers are supplied containing 0.05% Tween™-20 Detergent.
- Pierce™ Protein-Free blocking buffers can be used as a protein stabilizer for drying antigen- or antibody-coated microplates. Dry plate completely before sealing in a plastic bag with desiccant. Store plate at 4°C.

Block western blots

Note: For best results, use Pierce™ Protein-Free T20 blocking buffer or add a final concentration of 0.05% Tween™-20 detergent to the blocking buffer.

1. After the protein transfer, remove the membrane from the transfer apparatus, then wash in deionized water for 5 minutes, using agitation to remove all transfer buffer.
2. Add sufficient Pierce™ Protein-Free blocking buffer to cover the membrane.
3. Incubate for 1 hour at room temperature with shaking.
4. Continue with the western blotting procedure that is appropriate for your downstream detection. We recommend using Pierce™ Protein-Free blocking buffer to dilute primary and secondary antibodies.

Block ELISA plates

1. Coat the ELISA plate with antigen or antibody.
2. Add 300 µL of Pierce™ Protein-Free blocking buffer to each well, then incubate the plate for 1 hour at room temperature or 37°C. Alternatively, add 300 µL of blocking buffer to each well, then immediately invert the plate to empty contents. Repeat this process two more times.
3. Proceed with the ELISA protocol that is appropriate for your downstream detection.

   For storage, invert plate for approximately 2 hours to dry. Transfer plate to a plastic bag or other container containing a desiccant, such as silica gel. Store the plate at 4°C.

Related products

Products	Learn more
Western blotting reagents and accessories	thermofisher.com/westernblot
Western blot imaging and analysis	thermofisher.com/westernimaging
ELISA reagents and kits	thermofisher.com/ELISA
ELISA plate readers	thermofisher.com/microplatereaders

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale at **www.thermofisher.com/us/en/home/global/terms-and-conditions.html**. If you have any questions, please contact Life Technologies at **www.thermofisher.com/support**.

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For descriptions of symbols on product labels or product documents, go to thermofisher.com/symbols-definition.

Revision history: Pub. No. MAN0011566

Revision	Date	Description
B.0	7 September 2021	Updated format
A.0	17 October 2015	New document