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Datasheet for MB-073-010

BlockOut® Universal Blocking Buffer for Western Blotting 10-PACK

Overview

Description:	BlockOut® Universal Blocking Buffer for Western Blotting 10-PACK (10x500mL) - MB-073-010
Item No.:	MB-073-010
Size:	10 x 500 mL
Applications:	WB

Product Details

Background:	BlockOut® Universal Blocking Buffer Solution for Western Blotting is specifically designed for colorimetric, chemiluminescent, and fluorescent western blotting. BlockOut® is recommended for blocking when phospho specific antibodies are used. Pure nitrocellulose membrane is recommended for maximum performance. Other membranes, such as PVDF or nitrocellulose embedded in a support can be used, but may generate elevated backgrounds. Protein should be transferred from gel to membrane using standard protocols. BlockOut® can be used for membrane blocking and to dilute both primary and secondary antibodies. BlockOut® buffer is suitable for use with chemiluminescent and fluorescent western blot imaging systems produced by Bio-Rad Laboratories, GE Healthcare, Alpha Innotech, FujiFilm Life Science, Licor Biosciences, UVP and Syngene.
Synonyms:	Multiplex Blocking Buffer, Immunoblot Blocking Buffer, Blocking Solution, Blocking Buffer Western Blot, Western Blot Blocking Buffer, Alexa Dye Blocking Buffer, DyLight Blocking Buffer, colorimetric, chemiluminescent blocking buffer, WB block, BlockOut®

Target Details

Purity/Specificity:	BlockOut® Blocking buffer was prepared using ultra pure reagents dissolved in pharmaceutical grade water (WFI) and consists of a proprietary protein formulation in TRIS buffered saline at pH 7.6 with thimerosal added as an antimicrobial agent.

Application Details

Suggested Applications:	WB (Based on references)

Application Note:	BlockOut® allows for superior signal detection and lower background noise in colorimetric, chemiluminescent, and fluorescent western blotting and other applications making it a convenient general purpose blocking agent. Antibody conjugates prepared with IRDye® 800 and IRDye® 700DX (Licor), Cy2™, Cy3™, Cy3.5™, Cy5™ and Cy5.5™ (GE Healthcare), DyLight™405, DyLight™ 549, DyLight™ 649, DyLight™ 680, and DyLight™ 800 (Thermo Fisher/Pierce) and Alexa Fluor® 488, Alexa Fluor® 532, Alexa Fluor® 546, Alexa Fluor® 647 and Alexa Fluor® 680 (Invitrogen/Molecular Probes) and ATTO (Atto-Tec) have been validated on various platforms using this product with superior results compared to other commercially available products. In the infrared range, where little to no autofluorescence occurs, specific signal is sharply evident from any background giving the best possible signal-to-noise ratio. This allows for detection levels in the picogram range which rivals the sensitivity of chemiluminescence on film for western blotting. Superior results are also seen when this product is used for simultaneous labeling (multiplex) in western blots or microscopy using various fluorochrome combinations for multicolor imaging. Membranes blocked with BlockOut® can be dried and are very stable.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Defined

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1X
Buffer:	See application note.
Preservative:	Thimerosal is added as an antimicrobial agent.

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store Blocking Buffer at 4° C prior to opening. DO NOT FREEZE.
Expiration:	Expiration date is six (6) months from date of receipt.

Images

Bottle
BlockOut® Universal Blocking Buffer for Western Blotting

References

- Charli A et al. Mitochondrial stress disassembles nuclear architecture through proteolytic activation of PKCδ and Lamin B1 phosphorylation in neuronal cells: implications for pathogenesis of age-related neurodegenerative diseases. *Front Cell Neurosci.* (2025)
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- Bannert K, Berlin P, Reiner J, et al. SNX27 regulates DRA activity and mediates its direct recycling by PDZ-interaction in early endosomes at the apical pole of Caco2 cells. *Am J Physiol Gastrointest Liver Physiol.* (2020)
- Choudhary S, Buxton SK, Puttachary S, et al. EAT-18 is an essential auxiliary protein interacting with the non-alpha nAChR subunit EAT-2 to form a functional receptor. *PLoS Pathog.* (2020)

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