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Datasheet for MB-070-0050

Blocking Buffer (2X) for Fluorescent Western Blotting

Overview

Description:	Blocking Buffer (2X) for Fluorescent Western Blotting - MB-070-0050
Item No.:	MB-070-0050
Size:	50 mL
Applications:	WB, Cellular Assay, ELISA, IF, IHC, Microarray, Other

Product Details

Background:	This blocking buffer is ideal for infrared Western blotting. Fluorescence technology is widely used to detect proteins. However, many common visible fluorophores often result in considerable background fluorescence in the visible range. Visible fluorophores are rarely used for membrane-based protein detection because of this high background. IRDye™800, IRDye™700DX, Alexa Fluor® 680 and Cy5.5™ antibody and reagent conjugates are specifically designed for protein detection methods that use longer-wavelength, near-infrared (IR) fluorophores to visualize proteins in western blotting and other applications. IRDye™800 and IRDye™700DX fluoresce outside the range of most autofluorescence and therefore specific signal is sharply evident from any background giving the best possible signal-to-noise ratio. Detection levels in the picogram range on Western blots rival the sensitivity of chemiluminescence on film. IRDye™800 conjugates are also suitable for immunofluorescence microscopy using commercially available excitation/emission filters in the 780nm/820nm range. Dual simultaneous labeling in Western blots or microscopy is achieved when IRDye™800 conjugates are used in conjunction with IRDye™700 or Cy5.5™ conjugates. IRDye™800 and IRDye™700DX conjugates provide an ultra-sensitive and convenient alternative to standard chemiluminescent protein detection methods, as well as a valuable tool for multicolor imaging. Once reacted with the membrane and dried, IRDye™800 and IRDye™700DX conjugated antibody-protein complexes are very stable, and membranes can be stored protected from light, re-washed and/or rescanned.
Synonyms:	Multiplex Blocking Buffer, Fluorescent Blocking Buffer, Blocking Solution, Blocking Buffer Western Blot, IRDye Western Blot Blocking Buffer, Alexa Dye Blocking Buffer, DyLight Blocking Buffer

Target Details

Purity/Specificity:	Blocking buffer is specifically formulated to achieve superior reproducible Western blotting images using this system.

Application Details

Tested Applications:	WB
Suggested Applications:	Cellular Assay, ELISA, IF, IHC, Microarray, Other (Based on references)
Application Note:	This product is a 2X concentrated stock solution. Prepare a 1X working solution by diluting 1 part 2X concentrate with 1 parts TBS or equivalent. This buffer was meticulously 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Defined

Formulation

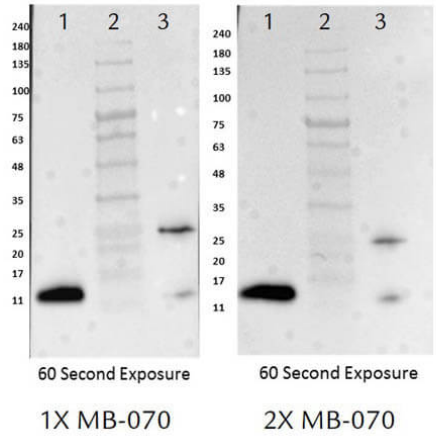
Physical State:	Liquid (sterile filtered)
Concentration:	2 X
Buffer:	See application note.
Preservative:	Thimerosal is added as an antimicrobial agent.

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
Blocking Buffer (2X) for Fluorescent Western Blotting



Western Blot
Western Blot Comparison of 1X and 2X MB-070 Buffer. Lane 1: reduced human NAG1 protein 0.1µg. Lane 2: Prestained Molecular Weight Marker 5µL (p/n MB-210-0500). Lane 3: non-reduced human NAG1 protein 0.1µg. Blocking Buffer: Left blot 1X, Right blot 2X of (p/n MB-070-050) for 30 min at RT. Primary Antibody: rabbit anti-NAG1 biotin conjugated antibody (p/n 209-406-B88) at 1µg/mL overnight at 2-8°C. Secondary Antibody: goat anti-rabbit antibody HRP conjugated (p/n 611-103-122) at 1:70,000 for 30 min at RT. Expect: ~14kDa for NAG1.

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