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Datasheet for MB-013

10X TTBS pH 7.5

Overview

Description:	10X TTBS pH 7.5 (1.0 M Tris HCl 1.5 M Sodium Chloride 0.1% (v/v) Tween-20) - MB-013
Item No.:	MB-013
Size:	1 L
Applications:	ELISA, WB

Product Details

Background:	Tween Tris buffered saline is suitable for multiple applications including biological diluent buffer for antibodies or other biologics. Visit our newly expanded web site at www.rockland.com for methods using this and other buffers. This product is a 10X concentrated stock solution and should be diluted appropriately with distilled, deionized water or equivalent to its final working concentration. This buffer consists of 1.0 M Tris HCl, 1.5 M Sodium Chloride and 0.1% (v/v) Tween-20 at a pH of 7.5. Meticulously prepared using ultra pure reagents dissolved in highly polished pharmaceutical grade deionized water.
Synonyms:	TTBS, TBST, Tween Tris Buffered Saline

Target Details

Purity/Specificity:	10X TTBS solution was aseptically filtered through a Millipore 0.22 micron filter into clean, pre-sterilized containers. The product was tested on trypticase soy agar for 24 hours, 48 hours and 72 hours and was found to be negative for bacteria.
Relevant Links:	• MB-013 SDS

Application Details

Suggested Applications:	ELISA, WB (Based on references)
Application Note:	TBST is suitable for molecular immunology, molecular biology and nucleic acid methodologies, when applicable. May be used as a wash buffer for immunological assays including western blot, immunohistochemistry, immunofluorescence microscopy, and ELISA.

Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
WB:	User Optimized

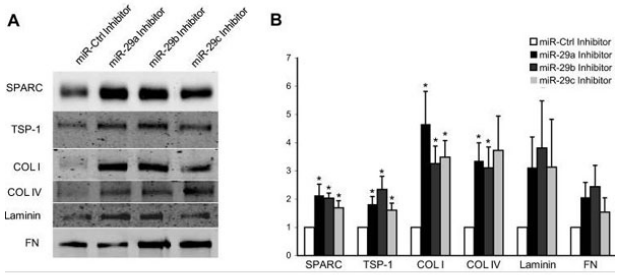
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	10 X
Buffer:	See application note.
Preservative:	None
Stabilizer:	None

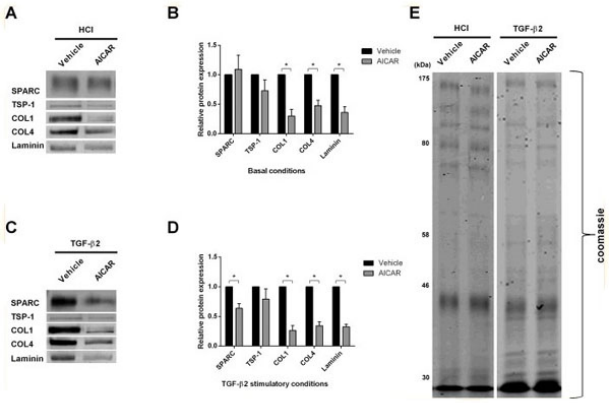
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store container at room temperature (18° to 26° C) prior to opening. If desired, the solution may be stored at 4° C or less. Some salts may precipitate out of solution at lower temperature. Allow buffer to equilibrate to room temperature (18° to 26° C) to restore solubility of some salts.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Western Blot
Inhibition of the miR-29 family induces ECM synthesis. (A) Representative immunoblot and (B) densitometric analyses of ECM proteins from conditioned media of TM cells transfected with miR control, miR-29a, miR-29b, or miR-29c inhibitors. All data are expressed as the mean ± SEM (*P < 0.05 vs. corresponding miR-Ctrl Inhibitor group; n = 5, where n refers to the number of independent experiments performed using n different primary human TM cell strains). Primary antibodies at 1:10,000 for SPARC; 1:1000 for Collagen Type I (p/n 600–401-103); 1:1000 for Collagen Type IV (p/n 600–401-106); 1:1000 for thrombospondin-1; 1:200 for laminin; and 1:2000 for fibronectin. Washes and blocking with 1XTBST (p/n MB-013). Figure 5. PMID: 21330653.



Western Blot

AICAR suppresses ECM proteins in primary human TM cells under basal and TGF-β2 stimulatory conditions. (A) Representative immunoblots of ECM proteins from CM of human TM cells treated for 24 hours with PBS vehicle or 0.5 mM AICAR and (B) integrated band intensities calculated from those immunoblots. (C) Representative immunoblots of ECM proteins from CM of human TM cells under stimulation with 2.5 ng/mL TGF-β2. Cells were pre-incubated for 1 hour with PBS or 0.5 mM AICAR prior to full 24-hour treatment. (D) Mean integrated band intensities. Data in (B) and (D) are expressed as mean ± SEM (*P < 0.05 versus PBS vehicle by Student's t-test; n = 5–7). (E) Representative 10% acrylamide gels stained with Coomassie Brilliant Blue as a loading control. Primary antibodies at 1:10,000 for SPARC, 1:1000 for TSP-1, 1:1000 for COL1 (p/n), 1:1000 for COL4 (p/n 600-401-106), 1:200 for Laminin. Washes and blocking with 1XTBST (p/n MB-013). Figure 5. PMID: 24713487.



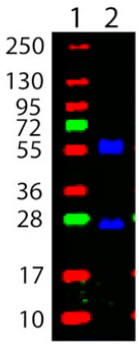
Bottle

10X TTBS pH 7.5 (1.0 M Tris HCl 1.5 M Sodium Chloride 0.1% (v/v) Tween-20)



Western Blot
Western Blot showing detection of anti-alpha tubulin blocked in MB-013.
HeLa Whole Cell Lysate (10 µg) was run on a 4-20% gel, then transferred to 0.45 µm nitrocellulose.
After blocking with 1% BSA-TTBS (p/n MB-013, diluted to 1X) for 30 min at 20°C, primary antibody was used at 1:2500 overnight at 4°C.
Anti-Rabbit IgG (H&L) (GOAT) antibody IRDye800CW® (p/n 611-131-002) secondary antibody was used at 1:20,000 with Blocking Buffer for Fluorescent Western Blotting (p/n MB-070) and imaged on the LiCor Odyssey imaging system.
Arrow indicates correct 50 kDa molecular weight position expected for alpha tubulin.

Lot #: 22432



Western Blot
Western Blot showing detection of Mouse IgG, heavy and light chain, blocking in MB-013. Lane 1: MW. Lane 2: 100 ng of Mouse IgG was run on a 4-20% gel and transferred to 0.45 µm nitrocellulose. Blocking with 1% BSA-TTBS (p/n MB-013, diluted to 1X) 30 min at 20°C. Detection: Anti-MOUSE IgG (H&L) (GOAT) Antibody DyLight™ 488 Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Rb Rt & Sh Serum Proteins) (p/n 610-141-121) secondary antibody was used at 1:1000 in Blocking Buffer for Fluorescent Western Blotting (p/n MB-070) and imaged using the Bio-Rad VersaDoc® 4000 MP.

References

- Barlang LA et al. Distribution and suitability of pulmonary surfactants as a vehicle for topically applied antibodies in healthy and SARS-CoV-2 infected rodent lungs. *Eur J Pharm Sci.* (2024)
- Chatterjee A, Villarreal G Jr, Oh DJ, Kang MH, Rhee DJ. AMP-activated protein kinase regulates intraocular pressure, extracellular matrix, and cytoskeleton in trabecular meshwork. *Invest Ophthalmol Vis Sci.* (2014)
- Villarreal G Jr, Oh DJ, Kang MH, Rhee DJ. Coordinated regulation of extracellular matrix synthesis by the microRNA-29 family in the trabecular meshwork. *Invest Ophthalmol Vis Sci.* (2011)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.