

Datasheet for TMBE-RED-0100**TMB Prestained Red ELISA Peroxidase Substrate****Overview**

Description:	TMB Prestained Red ELISA Peroxidase Substrate - TMBE-RED-0100
Item No.:	TMBE-RED-0100
Size:	100 mL
Applications:	ELISA

Product Details

Background:	TMB (3,3',5,5'-Tetramethylbenzidine) is a colorimetric substrate for peroxidase (HRP)-based enzyme immunoassays, notably ELISAs, and is known for producing a blue color that changes to yellow upon stopping the reaction with sulfuric acid.
Synonyms:	TMB Prestained Red ELISA Peroxidase Substrate, TMB ELISA Peroxidase Substrate

Target Details

Purity/Specificity:	pH: 4.0 +/- 0.2 Stability @ 18° to 26°C: PASS Stability @ 4°C: PASS QC Raw Material: PASS Absorbance check of final product: PASS Performance Data per ELISA: PASS
Relevant Links:	TMBE RED SDS

Application Details

Tested Applications:	ELISA
-----------------------------	-------

Application Note:	This proprietary formulation of TMB ELISA Peroxidase Substrate is red in color, enabling users to have visual certainty that the product was applied equally. The color change is quantifiable at 370 nm or 655 nm.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1X

Formulation

Physical State:	Liquid - light red colored
Concentration:	1X
Stabilizer:	Proprietary buffer with enhancer

Shipping & Handling

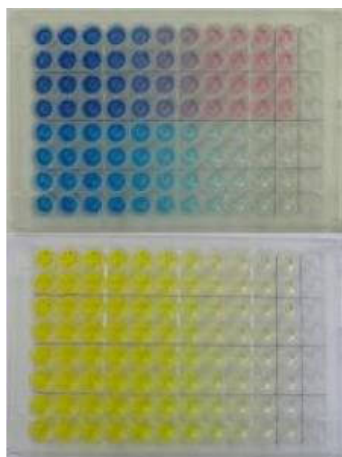
Shipping Condition:	Ambient
Storage Condition:	Store container at 4° C prior to opening. Protect from moisture and light. No special shipping conditions or precautions are required.
Expiration:	Expiration date is two (2) years from date of receipt.

Images



Bottle

TMB Prestained Red ELISA Peroxidase Substrate



ELISA

Rockland Immunochemicals produces a wide variety of buffers and substrates for use in ELISAs. Antigen was diluted in ELISA Microwell Coating Stabilizer (p/n MB-063-0100) added to the microwell plate and incubated overnight at 4°C. The plate was then blocked with ELISA Microwell Blocking Buffer with Stabilizer (p/n MB-064-1000) for 2 hours. The primary antibody was diluted in PBS Fish Gel Concentrate (1:10)(p/n MB-066-0100), added to the plate, and allowed to incubate 1 hour at room temperature. HRP conjugated secondary antibody was diluted in HRP Conjugate Stabilizer (p/n MB-060-0100), added to the plate, and allowed to incubate for 30 minutes at room temperature. TMB Prestained Red ELISA Peroxidase Substrate (p/n TMBE-RED-0100) (Rows A-D) and TMB ELISA Peroxidase Substrate (p/n TMBE-1000) (rows E-H) were added to the plate and allowed to incubate for 30 minutes at room temperature. The reaction was then stopped with 1M HCl and read at 450nm. The Red TMBE has comparable background to Rockland's regular TMBE.

References

- Sur M et al. Induction of Autoimmune Myocarditis in Diversity Outbred Mice. *Biology (Basel)*. (2026)

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.