

Datasheet: BUF054A

Description:	TMB SIGNAL+
Name:	TMB SIGNAL+
Format:	Ready To Use
Product Type:	Accessory Reagent
Quantity:	100 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Product Form

Ready to use TMB solution - liquid

Intended Use

BUF054A is a high performance TMB (3,3', 5, 5' - tetramethylbenzidine) solution, recommended for use in ELISA detection systems as a substrate for horseradish peroxidase (HRP).

BUF054A contains TMB, substrate buffer and hydrogen peroxide in a safe, ready to use solution. TMB SIGNAL+ has been optimised to enable increased sensitivity whilst maintaining increased stability. BUF054A provides minimal background and rapid development.

BUF054A produces a deep blue colour during the enzymatic degradation of H₂O₂ by horseradish peroxidase. For kinetic assays the absorbance is read at 655nm (blue). However, for endpoint assays the reaction may be stopped with 0.2M sulphuric acid, resulting in a yellow colour read at 450nm.

Instructions For Use

1. Pour the desired amount of BUF054A into a sealable container and allow it to reach room temperature in the dark. Note that 0.1ml will be required per well.
2. Add 0.1ml of BUF054A per microtiter well.
3. Allow development of BUF054A. Development time is typically 5-30 minutes. For best results, the plate should be kept in the dark during incubation. i.e. wrapped in tinfoil.
4. For kinetic assays, read absorbance at 655nm (blue). For endpoint assays, add an equal volume of 0.2M sulphuric acid and read the absorbance at 450nm (yellow). This endpoint solution is stable for up to one hour.
5. If reduced intensity is required, it is recommended that the development time is reduced or the

antibody/conjugate is diluted further. (Dilution of BUF054A is not recommended).

Storage

Store at +4°C. DO NOT FREEZE.

This product is photosensitive and should be protected from light.

Avoid exposure to heat and contamination with metal ions or peroxidase.

Store in bottles made of High Density Polyethylene (HDPE).

Guarantee

Guaranteed until date of expiry. Please see product label.

**Health And Safety
Information**

Material Safety Datasheet documentation #10111 available at:
10111: <https://www.bio-rad-antibodies.com/uploads/MSDS/10111.pdf>

Regulatory

For research purposes only

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

'M350308:190307'

Printed on 11 Aug 2020

© 2020 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)