Datasheet: BUF056A

BATCH NUMBER 170764

Description:	TMB CORE
Name:	TMB CORE
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

Product Information

TMB CORE 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). TMB CORE contains TMB, substrate buffer and hydrogen peroxide in a safe, ready to use solution.

TMB CORE produces a deep blue color during the enzymatic degradation of H_2O_2 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 BUF056A 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 BUF056A per microtiter well.

3. Allow development of BUF056A. 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 BUF056A is not recommended).
References	1. McKeand, S.A. *et al.* (2023) Inhibition of *Neisseria gonorrhoeae* complement-mediated killing during acute gonorrhoea is dependent upon the IgG2:IgG3 antibody ratio bioRxiv . Sept 26 [Preprint-not reviewed].
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: https://www.bio-rad-antibodies.com/SDS/BUF056A
Regulatory	For research purposes only

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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