

## Datasheet: BUF066B

<b>Description:</b>	TMB SENSITIVE
<b>Name:</b>	TMB SENSITIVE
<b>Format:</b>	Ready To Use
<b>Product Type:</b>	Accessory Reagent
<b>Quantity:</b>	500 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	■			

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

BUF066B is a high performance TMB (3,3', 5, 5' - tetramethylbenzidine) solution, recommended for use in ELISA as a substrate for horseradish peroxidase (HRP).

BUF066B contains TMB, substrate buffer and hydrogen peroxide in a safe, ready to use solution. The activity of TMB has been optimised to enable increased sensitivity, minimal background and rapid development.

BUF066B produces a deep blue colour during the enzymatic degradation of H<sub>2</sub>O<sub>2</sub> by horseradish Peroxidase. The reaction may be stopped with 0.25M sulphuric acid, resulting in a yellow colour read at 450nm.

BUF066B is more sensitive than other TMB reagents offered by Bio-Rad.

### Instructions For Use

1. It is recommended that 100ul of BUF066B TMB substrate is used per microtiter well. Pour the desired amount of substrate into a sealed container and allow it to reach room temperature in the dark.
2. Add 100ul of substrate solution per microtiter well.
3. Allow development of the substrate solution. Development time is typically 5-15 minutes. For best results, the plate should be kept in the dark during incubation e.g. wrapped in tinfoil.
4. For kinetic assays, read absorbance at 655nm (blue). For endpoint assays, add an equal volume of 0.25M sulphuric acid and read the absorbance at 450nm (yellow). This endpoint solution is stable for up to one hour.

N.B. If reduced intensity is required, it is recommended that the development time is reduced or the antibody/conjugate is diluted further. (Dilution of BUF066B is not recommended).

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**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).

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**Guarantee**

Guaranteed until date of expiry. Please see product label.

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**Health And Safety Information**

Material Safety Datasheet documentation #10296 available at:  
10296: <https://www.bio-rad-antibodies.com/uploads/MSDS/10296.pdf>

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**Regulatory**

For research purposes only

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