

## PRODUCT DATA SHEET

### TMB SUBSTRATE

#### TMB

#### 1. Description

TMB is a one-step chromogenic substrate containing 3,3',5,5'-tetramethylbenzidine, buffer and hydrogen peroxide. It's ready-to-use substrate for colorimetric detection in ELISA analysis, based on Horseradish Peroxidase labeled antibodies and proteins.

Code	Size	Physical state
500-1-100	100 ml	liquid
500-1-1000	1000 ml	liquid

#### 2. Features

Free of harmful organic solvents
Ready-to-use aqueous solution
Mono-component
One-step chromogenic substrate
Negligible differences lot to lot
Development time: 5-30 minutes
Recommended stop solution: 0.5 M H <sub>2</sub> SO <sub>4</sub>

#### 3. Specifications

pH	3.50 – 3.90
Colour	Colourless

#### 4. Stability and storage

4 years at 2-8 °C. <b>Avoid direct exposure to light</b> 1 year at room temperature. <b>Avoid direct exposure to light</b>	
Other information	All lots are tested
	Certificate of Quality is released for every lot
	Avoid to heat and to contaminate with metal ions or peroxidase



## HOW TO USE

1. The desired amount of substrate is poured into a sealed container and allowed to reach room temperature in the dark.
2. The volume added to each well depends on the coating volume used.  
Time of development is typically 5 – 30 minutes. We recommend to keep the plate in the dark during incubation.
3. The blue colour is read directly in kinetic assays at 650 nm. For endpoint assays equal volumes of 0.5 M sulphuric acid is added and the absorbance is read at 450 nm. The yellow solution is stable for up to one hour.
4. If reduced intensity is required, it is recommended to shorten the time of development or to dilute the conjugate in the immunoassay.

Data Sheet subject to change without notice.

For detailed technical information visit [www.biomat.it](http://www.biomat.it)