

Product Data Sheet

TMB OneSolution HRP Substrate for ELISA

Catalog number : TMB-001-100, TMB-001-500, TMB-001-1L, TMB-001-C

Product Description

A Ready-To-Use TMB (3,3',5,5' -tetramethylbenzidine) substrate solution, recommended for use in horseradish peroxidase (HRP) based ELISA tests. This formulation of stabilized TMB HRP substrate is optimized for the highest performance of its sensitivity and stability. This TMB reagent contains all essential components (stabilized TMB, substrate buffer and H₂O₂) in one solution, and offers a sensitive and clean detection performance.

In HRP enzyme reaction, this TMB reagent produces a dark blue color within 2 minutes. Reaction may be stopped after 5-10 minutes by adding diluted sulfuric acid, resulting a yellow color development. Quantitative measurement should be carried out using plate reader. The optical density (OD) of yellow color should be measured at 450nm or 405nm. Without stopping step in the reaction, the blue color may be read at 655nm.

Intended Use

For Research Use or Manufacturing Purpose Only

Precautions

This product should be handled by trained users only, avoid contact with eyes and skin.

Storage and Stability

Store at 2-8 °C, stable for at least 12 months from the date received.

Analysis and Test

The quality of this product is assured via ELISA, and is tested for thermal stability.

Provided As

- Cat. No. TMB-001-100: 100 ml TMB OneSolution HRP substrate
Cat. No. TMB-001-500: 500 ml TMB OneSolution HRP substrate
Cat. No. TMB-001-1L: 1000 ml TMB OneSolution HRP substrate
Cat. No. TMB-001-C: bulk volumes

Applications

ELISA

Product Use

Ready-to-use reagent

Procedure

- Add 100 µl of TMB substrate reagent to each well
- Incubate for 5 – 10 minutes at room temperature
- The positive detections develop blue color reaction product, and negative control reactions remain clear non-colored solution in the wells.
- Add 100 µl of 1N H₂SO₄ to stop enzyme reaction after 10 minutes incubation. Blue color solution become yellow color.
- Read at 450nm or 405nm for yellow color