

TMB Substrate

Catalog NO.: RM00027

version: 2.0

This package insert must be read in its entirety before using this product

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Introduction

TMB Substrate contains 3,3',5,5'-tetramethylbenzidine in a mildly acidic buffer. The substrate is supplied as a ready to use solution. Unreacted substrate should be colorless or very light yellow in appearance. When this substrate system is reacted with peroxidase, a soluble blue reaction product is obtained. The reaction can be stopped using appropriate stop solution, producing a soluble yellow or soluble blue reaction product, depending upon the stop reagent used, which is stable for at least 1 hour.

Principle of the Assay

The principle is to apply the basic principle of enzyme-linked immunology — When the enzyme labeled on the antibody or antigen reacts with H₂O₂ and TMB in the color development solution, the solution changes from blue to yellow, and yellow reflects the amount of antibody and antigen binding in the ELISA system, so as to determine how much of a certain antigen or antibody. The extent of the immune response was measured by reading the light absorption value through a microplate reader.

Product Use

The product should be allowed to equilibrate to room temperature (25°C) prior to use.

For microwell applications, 100 µL of substrate solution is added to each well.

Add termination fluid. The OD values were detected at 450nm.

Storage

Store at 2 - 8°C