

TMB Kit for ELISA (Enzyme-Linked ImmunoSorbent Assay)

(3,3',5,5'-tetramethylbenzidine for microwell peroxidase)

Storage: 4-8°C

Catalog No.: C08-1L 1000ml

Intended Use:

TMB Kit is one component 3,3',5,5'-tetramethylbenzidine (TMB) microwell peroxidase substrate for ELISA (Enzyme-Linked ImmunoSorbent Assay) application. When the substrate reacts with peroxidase it produces a soluble blue colored end product. The reaction can be stopped using appropriate stop solution, producing a soluble yellow or soluble blue end product, depending on the stop reagent used, which is stable for one hour. TMB kit is not recommended for assays that require precipitation reaction product, such as membrane or immunohistochemical applications. This product is stable for at least 3 years from the manufacture date.

Kit Components:

Ready to use TMB solution 1000ml

Recommended Protocol:

1. TMB substrate should be brought to room temperature (25°C) before use.
2. For ELISA application, 100 ul of TMB substrate is added to each well
3. A soluble blue color will develop upon reaction with peroxidase. The blue colored product may be read in the 370nm or 620 nm to 650 nm range.
4. For best results, sample absorbance values should be monitored and read before absorbance values exceed 2.0 OD units.
5. The substrate reaction can be stopped using equal volumes of 1N HCL, or 0.6N Sulfuric Acid. The acids will stop the enzymatic reaction and turn the blue color to yellow.

Related Products:

Product	Catalog No.	Size
AEC kit (20x concentrate)	C01-12	12ml
DAB+ Kit (2-component DAB)	C09-12 / C09-100	12ml +240ml / 100ml + 2 L
DAB Kit (20x Concentrate)	C02-100 / C02-12	100ml / 12ml
DAB Enhancer (ready-to-use)	C06-500 /C06-1L	500ml / 1L
Fast Red Kit (tablets and ready-to-use substrate)	C03-60	12 Tab + 60ml
AP-Red+ Kit (40x concentrate)	C04-8	8ml
BCIP/NBT (Ready-to-use)	C05-18 / C05-100	18ml / 100ml

Precautions:

Wear gloves and avoid contact with skin.

Storage:

Store at 2-8°C. TMB is light sensitive and should be protected for direct light or UV sources.

Remarks:

For research use only.