



## TMB 1-Component HRP substrate

Catalog No.: A50002-1000      Size: 1000 mL

### Description:

TMB 1-Component HRP microwell substrate contains 3,3',5,5'-tetramethylbenzidine and hydrogen peroxide producer. The substrate product is designed as an easy to use in peroxidase-based, colorimetric techniques. It develops a deep blue soluble product (an absorbance peak at around 630 nm) when reacted with horseradish peroxidase labeled conjugates in microwell plates or tubes, and a yellow soluble product (an absorbance peak at around 450 nm) upon acidification. It is suitable for qualitative or quantitative microwell / tube immunoassays.

The TMB 1-Component HRP microwell / tube substrate is ready to use, stable for more than 18 months at stored at 4° C with tightly capped. Re-dispense is suggested into amber Nalgene HDPE bottles only.

This product is non carcinogenic.

### Materials Provided:

All solutions are ready to use.

- |                                  |         |
|----------------------------------|---------|
| 1. Insert                        | 1 copy  |
| 2. TMB 1-Component HRP substrate | 1000 mL |

### Methods (Recommended):

Pour out needed amount of the reagent of TMB 1-Component HRP microwell / tube substrate into a plastic reservoir. Do not return excess TMB 1- Component HRP microwell / tube substrate back to the primary container.

#### (1) Endpoint Assay

In endpoint assay of microwell / tube immunoassays, 100 uL of the TMB 1- Component microwell / tube substrate is added to each well, and tap gently to mix. Incubation times will vary depending on your assay. The substrate reaction can be stopped by adding 50 uL of stop solution (0.35 M acid). After stopped, a soluble yellow product develops which is read at wavelength 450 nm.

#### (2) Kinetic Assay

In kinetic assay of microwell / tube immunoassays, 100 uL of the TMB 1- Component microwell / tube substrate is added to each well. A soluble blue reaction product can be read in a wavelength range of 620 nm to 650 nm as the color develops.