

## Product Information

### Stop Reagent for TMB Substrate

for ELISA, 650 nm

Catalog Number **S5689**

Store at Room Temperature

### Product Description

In ELISA experiments which utilize horseradish peroxidase (HRP) conjugates and the chromogenic substrate 3,3',5,5'-tetramethylbenzidine (TMB), it is common practice to stop the reactions with dilute acid, such as HCl or H<sub>2</sub>SO<sub>4</sub>. This Stop Reagent for TMB Substrate product is designed to stop TMB reactions in ELISA analyses in microwell systems, without producing the spectral change from blue to yellow that results from standard quenching of these reactions with acid. This product is a proprietary, dry blend formulation used to stop the Sigma one-component TMB Liquid Substrate Systems (Catalog Numbers T5569, T4319, T8665, T0440, and T4444) in the blue range of 620 nm to 650 nm.

Several publications cite use of this reagent in their protocols.<sup>1,2</sup>

### Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

### Preparation Instructions

Add 100 mL of ultrapure water. Allow ~5 minutes to dissolve.

### Storage/Stability

The solid product is stable indefinitely. In solution, the reagent is stable for a minimum of 2 years. Store at room temperature before and after reconstitution. Refrigerated temperatures will not harm the reagent.

### Procedure

Equal volumes of substrate and Stop Reagent solution should be used. Refer to the data sheets included with the Sigma TMB Liquid Substrate Systems for additional details.

### References

1. Khodaverdian, V. *et al.*, *Antimicrob. Agents Chemother.*, **57(8)**, 3645-3652 (2013).
2. Bryant, P. *et al.*, *Mol. Pharmaceutics*, **12(6)**, 1872-1879 (2015).

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