

Product Information

Stop Reagent for TMB Substrate

For ELISA, 450 nm

S5814

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 H₂SO₄. This product is a proprietary, dry blend formulation that is used to stop the one-component TMB Liquid Substrate Systems (Cat. Nos. T5569, T4319, T8665, T0440, and T4444), where addition of this Stop Reagent changes the chromogen from blue to yellow.

Several publications,¹⁻⁸ theses,⁹ and dissertations¹⁰⁻¹⁶ cite use of S5814 in their protocols.

Precautions and Disclaimer

This product is 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.

Storage/Stability

- Prior to hydration with water, this product is stable indefinitely.
- After hydration, 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.

Preparation Instructions

- Add 100 mL of distilled or deionized water.
- Allow approximately 5 minutes to dissolve.

Procedure

This product is used to stop TMB Microwell substrate and change the absorbance from blue (620 nm) to yellow (450 nm).

- Equal volumes of substrate and stop solution should be used.
- The resulting yellow end-product, which is stable for at least one hour, can then be read at 450 nm.
- Refer to the Product Information Sheets included with the respective TMB Liquid Substrate Systems for additional details.

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