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## TECHNICAL INFORMATION

Catalog Number: 152346, 196025, 821807, 821808  
**3,3',5,5'-Tetramethylbenzidine liquid substrate**

**Molecular Formula:** C<sub>16</sub>H<sub>20</sub>N<sub>2</sub>

**Molecular Weight:** 240.3

**CAS # :** 54827-17-7

**Form:** Stabilized, ready-to-use solution

**Storage:** Can be stored at room temperature. For long term storage we recommend refrigeration. Let reach room temperature before use. Do not Freeze.

**Precaution:** Contains dimethylsulfoxide (DMSO), urea peroxide. Avoid contact with the skin or eyes. In case of contact, flush with plenty of tap water. If disposed of in the sink, flush with plenty of tap water to avoid creating a DMSO stench.

**Note:** If an amorphous precipitate is observed or develops during storage, it can be removed by filtration (filter: Whatmann No. 42 or 44). The amorphous precipitate does not hamper the quality and does not demonstrate instability of the solution.

Do not use if the solution darkens. A slight greenish appearance is acceptable. Very sensitive reagent. Avoid any kind of contamination.

### Use in ELISA Reactions -- Basic Reaction Conditions:

Activating Reagents:	Peroxidase and pseudo-peroxidase activities
Sensitivity to day and artificial light:	Negligible
Volume per microliter plate well (96-well microtiter plate):	200 microliters
Reaction Time:	30 minutes
Reaction Temperature:	Room Temperature (approx. 25°C)
Reaction pH Range:	4.5 - 5.5
Product Form:	Green to Dark Brown Soluble Chromogen
Peak wavelength before stopping:	Two peaks, the major 370-450 nm
Stopping Solution:	2 M Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )
Volume of Stopping Solution per microtiter plate well:	50 microliters
Product form after stopping:	Yellow to Deep Yellow soluble chromogen
Peak wavelength after stopping:	One peak 440-450 nm
Developed chromogen stability:	30 minutes

**Solubility:** Soluble in water

### Availability:

Catalog Number	Description	Size
152346	TMB Liquid Substrate, 1.25 mmol/liter	50 ml 100 ml 1 liter
196025	TMB Liquid Substrate, 1.56 mmol/liter	100 ml 1 liter
821807	TMB Liquid Substrate, 1.13 mmol/liter	100 ml

