

## TMB Soluble Reagent (Standard Sensitivity)

**Description:** This liquid substrate for peroxidase consists of 3,3',5,5'-tetramethylbenzidine (TMB) plus dilute hydrogen peroxide in a single-reagent stabilized form. The reagent has been specifically formulated for measuring peroxidase in ELISA systems. This reagent is stable for long-term storage and provides sensitivity equal to, or greater than, that of OPD.

Contents: TMB in a dilute organic solvent with buffer, pH 6.0± 0.5. Hydrogen peroxide is added at a concentration of 0.03%

Activating Agents: Peroxidase

Light Sensitivity: Negligible for short exposure times, however light sources should be avoided.

Reaction pH: Approximately pH 6.0 (Range 5.0 - 7.0)

Reaction Temperature: Room temperature

Peak Wavelengths: 650 nm, unstopped, blue reaction product  
450 nm, stopped, yellow reaction product

**Uses/Limitations:** For use in ELISA procedures.

**Availability:**

<u>Item #</u>	<u>Volume</u>
TM1125	125 ml
TM1500	500 ml
TM1999	1000 ml
TM1010	10 Liters

Note: Custom vialing and volumes available on request.

**Storage:** Store TMB solution at 2-8°C. Storage below this temperature may result in a slight blue tint, which disappears after returning to the appropriate temperature. Refrigeration is not mandatory. Do not expose reagents to strong light. Keep bottle tightly capped. Reagents are stable for at least 12 months when stored at room temperature, or 20 months when stored at 2-8°C. Avoid contamination of reagents with labware which has not been thoroughly cleaned. A slight yellow tinge may develop over time. This does not affect product performance. Do not use if solution darkens.

**Procedure:**

1. Add 50 - 100 ul per well in microtiter plates
2. All reaction to continue approximately 15 minutes (Range 5 - 60 min.).

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3. Add an equal volume of Stop Buffer (catalog # TSB). Stopped reactions show increased absorbance values of approximately 2-fold over unstopped reactions.
4. When used in conjunction with ScyTek's proprietary Stop Solution, stopped reactions are stable for at least 30 minutes to several hours depending on the level of peroxidase activity. Intense reactions may precipitate on prolonged standing. This can be prevented by reducing concentration of antibody/conjugate.

**Precautions:**

1. Do not pipette reagents by mouth.
2. Avoid contact with skin and eyes.
3. In case of contact, flush with plenty of water.
4. Dispose of reagents according to local regulations.
5. If disposed of in the sink, flush with plenty of water.