

TMB Soluble Reagent (Aqueous)

Description: This liquid substrate for peroxidase consists of tetramethylbenzidine (TMB) plus dilute hydrogen peroxide in a single-reagent stabilized form. When used in combination with ScyTek's proprietary TMB Stop Buffer (REF# TSB), the resulting reaction remains stable and precipitate free for extended periods of time. 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.

Form: 3,3',5,5'-tetramethylbenzidine

Contents: TMB in an aqueous buffer, pH 3.6 ± 0.2 . Hydrogen peroxide 0.03%.

Activating Agents: Peroxidase

Light Sensitivity: Negligible for short exposure times

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


Uses: ELISA


Limitations: Do not use past expiration date.
Do not expose to light.
Do not pour unused reagent back into container.

Availability:

<u>REF #</u>	<u>Volume</u>
TMA015	15 ml
TMA028	28 ml
TMA030	30 ml
TMA125	125 ml
TMA500	500 ml
TMA999	1000 ml
TMA010	10 liters

Storage: Store TMB solution at 2 - 8°C.
Reagents are stable for at least 12 months when stored at room temperature, or 24 months when stored at 2 - 8 C.

Storage: 2° C  8° C

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Avoid contamination of reagents with labware which has not been thoroughly cleaned.

Procedure:

- Reaction Volume: 50 - 100 ul per well in microtiter plates
- Reaction Time: Approximately 15 minutes (Range 5 - 60 min.)
- Reaction pH: Approximately 3.6
- Reaction Temperature: Room temperature
- Stopping Solution: Equal volume of TMB Stop Buffer (REF: TSB999). Experimentation has shown that using stopping solutions other than ScyTek's TMB Stop Buffer can sometimes result in formation of precipitate in the stopped solution. Stopped reactions show increased absorbance values of approximately 2-fold over unstopped reactions.
- Reaction Stability: Stopped reactions are stable for at least 30 minutes to several hours depending on the level of peroxidase activity.

- Precautions:** Do not expose reagents to strong light.
Keep bottle tightly capped.
Do not pipette reagents by mouth.
Avoid contact with skin and eyes.
In case of contact, flush with plenty of water.
Dispose of reagents according to local regulations.
If disposed of in the sink, flush with plenty of water.

Storage: 2° C



8° C



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