

TMB Soluble Reagent (Standard Sensitivity)

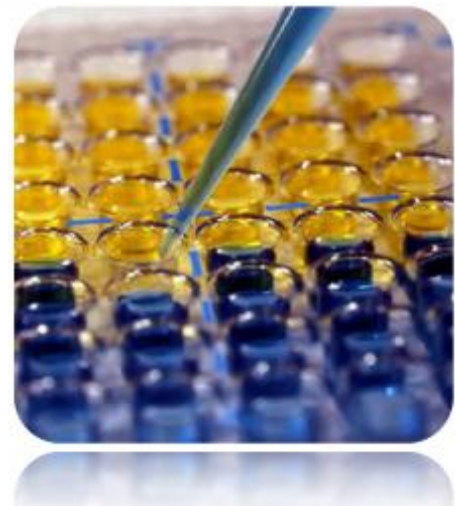
Description: This liquid substrate for peroxidase consists of tetramethylbenzidine (TMB) plus dilute hydrogen peroxide in a single-reagent stabilized form. The reagent has been specifically formulated for measuring peroxidase in ELISA systems. This reagent is stable for long-term storage and provides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

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

Contents: TMB in a dilute organic solvent with buffer. Contains Hydrogen peroxide as activating agent.

Stability: 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.

Uses/Limitations: Not to be taken internally.
For In-Vitro Diagnostic use.
Immunological applications.
Do not use if reagents become cloudy.
Do not use past expiration date.
Use caution when handling reagents.
Non-Sterile.




Ordering Information and Current Pricing at www.scytek.com
Please contact for addition OEM and Bulk pricing.
Custom vialing and volumes also available on request.


Availability:	Item #	Volume
	TM1125	125 ml
	TM1500	500 ml
	TM1999	1000 ml
	TM1010	10 Liters

Storage: Store at 2-8°C.


Precautions: Avoid contact with skin and eyes.
Harmful if swallowed.
Do Not pipette reagent by mouth.
Follow all Federal, State, and local regulations regarding disposal.

Activating Agents: Peroxidase

Storage: 2° C  8° C

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205 South 600 West
Logan, UT 84321
U.S.A.


 



Emergo Europe
Prinsessegracht 20
2514 AP The Hague, The Netherlands

Light Sensitivity:	Negligible for short exposure times
Reaction Volume:	50 - 100 ul per well in microtiter plates
Reaction Time:	Approximately 15 minutes (Range 5 - 60 min.)
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
Stopping Solution:	Equal volume of Stop Buffer (cat# TSB). 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. Intense reactions may precipitate on prolonged standing. This can be prevented by increasing concentration of stopping solution.

References:

- Cui, Zhengrong, and Russell J Mumper. 2001. "Chitosan-Based Nanoparticles for Topical Genetic Immunization." *Journal of Controlled Release* 75 (3): 409–19. [https://doi.org/10.1016/S0168-3659\(01\)00407-2](https://doi.org/10.1016/S0168-3659(01)00407-2).
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- Kato, Mototsugu, Masahiro Asaka, Masao Saito, Hitoshi Sekine, Shuichi Ohara, Takayoshi Toyota, Taiji Akamatsu, et al. 2000. "Clinical Usefulness of Urine-Based Enzyme-Linked Immunosorbent Assay for Detection of Antibody to Helicobacter Pylori: A Collaborative Study in Nine Medical Institutions in Japan." *Helicobacter* 5 (2): 109–19. <https://doi.org/10.1046/j.1523-5378.2000.00017.x>.
- Katsuragi, Kiyonori, Atsunari Noda, Tetsuya Tachikawa, Atsushi Azuma, Fumie Mukai, Kazunari Murakami, Toshio Fujioka, Mototsugu Kato, and Masahiro Asaka. 1998. "Highly Sensitive Urine-Based Enzyme-Linked Immunosorbent Assay for Detection of Antibody to Helicobacter Pylori." *Helicobacter* 3 (4): 289–95. <https://doi.org/10.1046/j.1523-5378.1998.08045.x>.
- Sasaki, Sei, Yasukazu Ohmoto, Toyoki Mori, Fusako Iwata, and Masahiro Muraguchi. 2012. "Daily Variance of Urinary Excretion of AQP2 Determined by Sandwich ELISA Method." *Clinical and Experimental Nephrology* 16 (3): 406–10. <https://doi.org/10.1007/s10157-011-0574-2>.
- Takahashi, Hitoshi, Shiho Nagata, Takato Odagiri, and Tsutomu Kageyama. 2018. "Establishment of the Cross-Clade Antigen Detection System for H5 Subtype Influenza Viruses Using Peptide Monoclonal Antibodies Specific for Influenza Virus H5 Hemagglutinin." *Biochemical and Biophysical Research Communications* 498 (4): 758–63. <https://doi.org/10.1016/j.bbrc.2018.03.054>.
- Tochino, Yoshihiro, Hiroshi Kanazawa, Yukikazu Ichimaru, Kazuhisa Asai, Shigenori Kyoh, and Kazuto Hirata. 2007. "Nε-(Carboxymethyl)Lysine, a Major Advanced Glycation End Product in Exhaled Breath Condensate as a Biomarker of Small Airway Involvement in Asthma." *Journal of Asthma* 44 (10): 861–66. <https://doi.org/10.1080/02770900701752573>.
- Whitehurst, Brandt, Michael J. Flister, Juhi Bagaitkar, Lisa Volk, Christopher M. Bivens, Brent Pickett, Emely Castro-Rivera, Rolf A. Brekken, Robert D. Gerard, and Sophia Ran. 2007. "Anti-VEGF-A Therapy Reduces Lymphatic Vessel Density and Expression of VEGFR-3 in an Orthotopic Breast Tumor Model." *International Journal of Cancer* 121 (10): 2181–91. <https://doi.org/10.1002/ijc.22937>.

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EC REP

 Emergo Europe
 Prinsessegracht 20
 2514 AP The Hague, The Netherlands


Instructions For Use
TM1-IFU


Rev. Date: May 9, 2019

Revision: 5

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P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 – Tel. (435) 755-9848 - Fax (435) 755-0015 - www.scytek.com

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TMB Soluble Reagent (Standard Sensitivity)

- Description:** Ce substrat liquide pour la peroxydase se compose de tétraméthylbenzidine (TMB) plus du peroxyde d'hydrogène dilué sous une forme stabilisée à réactif unique. Le réactif a été spécifiquement formulé pour mesurer la peroxydase dans les systèmes ELISA. Ce réactif est stable pour un stockage à long terme et offre une sensibilité égale ou supérieure à celle de l'OPD.
- Forme:** 3,3',5,5'- tétraméthylbenzidine
- Contenu:** TMB dans un solvant organique dilué avec un tampon. Contient du peroxyde d'hydrogène comme agent d'activation.
- Stabilité:** Les réactifs sont stables pendant au moins 12 mois lorsqu'ils sont stockés à température ambiante, ou 20 mois lorsqu'ils sont stockés entre 2 et 8°C. Eviter de contaminer les réactifs avec du matériel de laboratoire qui n'a pas été soigneusement nettoyé. Une légère teinte jaune peut apparaître avec le temps. Cela n'affecte pas les performances du produit. Ne pas utiliser si la solution noircit.

- Utilisations/Limitations:** Ne doit pas être pris par voie interne.
 Pour le diagnostic in vitro.
 Applications immunologiques.
 Ne pas utiliser si les réactifs deviennent troubles.
 Ne pas utiliser après la date de péremption.
 Faire attention lors de la manipulation des réactifs.
 Non stérile.



Informations sur les commandes et prix actuels sur www.scytek.com
 Veuillez nous contacter pour obtenir des prix supplémentaires pour les OEM et les produits en vrac.
 Des flacons et des volumes personnalisés sont également disponibles sur demande

Disponibilités:	Item #	Volume
	TM1125	125 ml
	TM1500	500 ml
	TM1999	1000 ml
	TM1010	10 L

Stockage: Store at 2-8°C.

Précautions: Éviter tout contact avec la peau et les yeux.
 Nocif en cas d'ingestion.
 Ne pas pipeter le réactif par la bouche.

Storage: 2° C  8° C

 ScyTek Laboratories, Inc.
 205 South 600 West
 Logan, UT 84321
 435-755-9848
 U.S.A.

 Authorized Representative in Europe
 (Regulatory affairs only)
 EmergoEurope (31)(0) 70 345-8570
 Molsstraat 15
 2513 BH Hague, The Netherlands

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Respecter toutes les réglementations fédérales, nationales et locales concernant l'élimination des déchets.

Agents d'activation: Peroxydase

Sensibilité à la lumière: Négligeable pour des temps d'exposition courts

Volume de réaction: 50 - 100 ul par puits dans des plaques de
microtitration

Temps de réaction: environ 15 minutes (entre 5 et 60 minutes)

pH de la réaction: pH approximatif de 6,0 (plage de 5,0 à 7,0)

Température de réaction: Température ambiante

Longueurs d'onde des pics: 650 nm, non arrêté, produit de réaction bleu
450 nm, arrêté, produit de réaction jaune


Solution d'arrêt: Volume égal de tampon d'arrêt (cat# TSB). Les réactions stoppées présentent des valeurs d'absorbance environ 2 fois plus élevées que les réactions non stoppées.

Stabilité de la réaction: Les réactions arrêtées sont stables pendant au moins 30 minutes à plusieurs heures selon le niveau d'activité de la peroxydase. Les réactions intenses peuvent précipiter en cas de repos prolongé. Ceci peut être évité en augmentant la concentration de la solution d'arrêt.

References:

1. Cui, Zhengrong, and Russell J Mumper. 2001. "Chitosan-Based Nanoparticles for Topical Genetic Immunization." *Journal of Controlled Release* 75 (3): 409–19. [https://doi.org/10.1016/S0168-3659\(01\)00407-2](https://doi.org/10.1016/S0168-3659(01)00407-2).
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