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

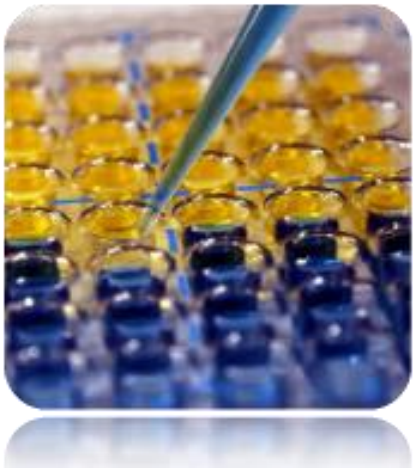
TMB Stop Buffer

Description: Stop Buffer (TSB) offers a unique combination of acids that produces a more stable stopped reaction product than other formulations of H2SO4 or HCL. Stopped reactions show increased absorbance values of approximately two-fold over unstopped reactions with minimal drift for up to six hours depending on various conditions. This reagent can be customized to meet each customers specific needs. Inquire about custom vialing, labeling, kit assembly and drop shipping. ScyTek's TMB Substrate catalog numbers are TM1 and TM4.

Contents: Proprietary combination of acids and buffers in an aqueous solution.

Stability: Shelf life is 24 months from the day of manufacture. Avoid contamination of reagents with labware which has not been thoroughly cleaned. The TMB ELISA test is susceptible to contamination by oxidizing metals which may produce a false positive signal.

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.



Availability:

Item #	Volume
TSB125	125 ml
TSB500	500 ml
TSB999	1000 ml

Bulk Ordering Information and Current Pricing at www.scytek.com

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.

TMB – HRP REACTION

Activating Agents: Peroxidase

Light Sensitivity: Negligible for short exposure times

Reaction Volume: 50 - 100 ul per well in microtiter plates

Storage: 18° C 25° C

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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:

1. Hirata, Kumiko, and Keiji Kubo. “Relationship between Blood Levels of N-Carboxymethyl-Lysine and Pentosidine and the Severity of Microangiopathy in Type 2 Diabetes.” Endocrine Journal 51, no. 6 (2004): 537–44. https://doi.org/10.1507/endocrj.51.537.
2. Nakamura, Naoto, Goji Hasegawa, Hiroshi Obayashi, Masahiro Yamazaki, Masakazu Ogata, Koji Nakano, Toshikazu Yoshikawa, et al. “Increased Concentration of Pentosidine, an Advanced Glycation End Product, and Interleukin-6 in the Vitreous of Patients with Proliferative Diabetic Retinopathy.” Diabetes Research and Clinical Practice 61, no. 2 (August 1, 2003): 93–101. https://doi.org/10.1016/S0168-8227(03)00109-8.
3. Sanaka, Tsutomu, Takenori Funaki, Toshihisa Tanaka, Sayako Hoshi, Jyun Niwayama, Takashi Taitoh, Hideki Nishimura, and Chieko Higuchi. “Plasma Pentosidine Levels Measured by a Newly Developed Method Using ELISA in Patients with Chronic Renal Failure.” Nephron 91, no. 1 (2002): 64–73. https://doi.org/10.1159/000057606.
4. Takahashi, Masaharu, Tsutomu Nishizawa, Haruko Miyajima, Yuhko Gotanda, Teruhiko Iita, Fumio Tsuda, and Hiroaki Okamoto. “Swine Hepatitis E Virus Strains in Japan Form Four Phylogenetic Clusters Comparable with Those of Japanese Isolates of Human Hepatitis E Virus.” Journal of General Virology 84, no. 4 (2003): 851–62. https://doi.org/10.1099/vir.0.18918-0.
5. Hoshino, Motoaki, Taku Yoshio, Sachiko Onishi, and Seiji Minota. “Influence of Antibodies against Infliximab and Etanercept on the Treatment Effectiveness of These Agents in Japanese Patients with Rheumatoid Arthritis.” Modern Rheumatology 22, no. 4 (August 1, 2012): 532–40. https://doi.org/10.3109/s10165-011-0567-8.
6. Kim, Kang Jung, Shigeru Kotake, Nobuyuki Udagawa, Hideo Ida, Masaji Ishii, Isao Takei, Toshikazu Kubo, and Michiaki Takagi. “Osteoprotegerin Inhibits in Vitro Mouse Osteoclast Formation Induced by Joint Fluid from Failed Total Hip Arthroplasty.” Journal of Biomedical Materials Research 58, no. 4 (2001): 393–400. https://doi.org/10.1002/jbm.1033.

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