

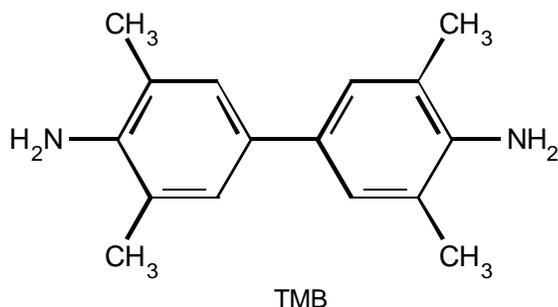
Product Information

3,3',5,5' Tetramethylbenzidine (TMB), Red Liquid Substrate System for ELISA

Product Number **T1693**

Storage Temperature 2-8 °C

Product Description



This product is supplied as a ready-to-use, one component peroxidase substrate containing 3,3',5,5'-tetramethylbenzidine in a mildly acidic buffer. This formulation contains a red tracking dye that allows visualization during pipeting. Just like traditional TMB substrate systems, it develops a blue reaction product when reacted with peroxidase in microwell applications. For end-point assays, acid can be used to stop the reaction, yielding a yellow end product. Since this substrate produces a soluble reaction product, it is **not recommended** for histochemistry or blotting.

Precautions and Disclaimer

This product is for laboratory use only. Please consult the Material Data Safety Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store at 2-8 °C. This substrate is light sensitive and should be protected from direct sunlight or UV sources.

Procedure

Bring to room temperature before use. Following the reaction with peroxidase, a blue reaction product forms that may be read at 370 nm or between 620 and 655 nm. For end-point assays, the reaction can be stopped by the addition of a volume of 1 or 2 N hydrochloric acid or 1 N sulfuric acid equal to the volume of the substrate reaction in the well. The resulting yellow end product, which is stable for at least one hour, can then be read at 450 nm. Sigma offers a preformulated stop solution (Prod. No. S 5814) for this application. End-point assays can also be read at 650 nm using Sigma's stop solution, Prod. No. S 5689. Dilution of the substrate is not recommended. To reduce the intensity of a reaction, it is recommended that the antibodies or conjugates be diluted.

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