



User's Manual

# TMB Liquid Substrate System



IKJU-027CL



100 ml, 1 L



This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

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Creative Diagnostics

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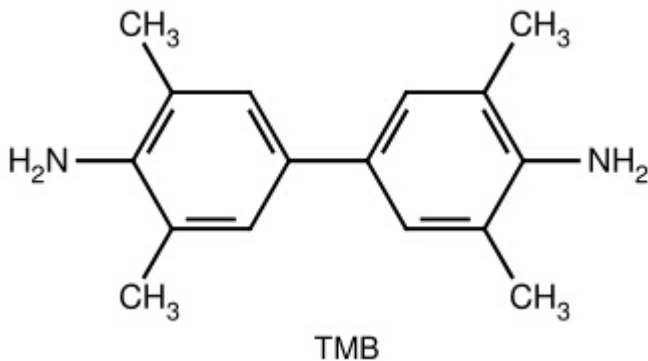
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## PRODUCT INFORMATION

### General Description



This product is supplied as a ready-to-use peroxidase substrate containing 3,3',5,5'-tetramethylbenzidine (TMB) in a mildly acidic buffer. Prior to reaction with peroxidase, the substrate should be a colorless to light bluish-green solution. The substrate system develops a blue reaction product when reacted with peroxidase in microwell applications (e.g. ELISA assays). 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.

### Storage

Store at 2-8°C.

### Assay Procedure

This product is a ready-to-use, one component substrate for peroxidase and is supplied at the working dilution. It should be brought to room temperature (approx. 25°C) before use.

Following 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 1N or 2N hydrochloric acid or 1N 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.

Dilution of the substrate is not recommended. To reduce the intensity of a reaction, it is recommended that the antibodies or conjugates be diluted.

### Precautions

This product does not contain the hazardous compounds usually present in this type of product. This reduces the environmental concerns associated with shipping and handling of the material. Consult the MSDS for additional information.

This substrate is light-sensitive and should be protected from direct sunlight or UV sources.