

Prestained TMB PLUS™, Ready-to-use

ELISA HRP Substrate, Pink
Cat. No. 4440

Kem-En-Tec Diagnostics **Prestained TMB PLUS, ready-to-use Substrate** is a highly active and stable substrate with unique aqueous formulation. This gives maximized safety during use and minimized waste problems after use.

Prestained TMB PLUS is stained with a pink indicator which eliminates mistakes during pipetting. The pink indicator disappears after addition of the stop solution. The substrate gives higher signal than standard TMB solutions giving a very fast assay reaction.

TMB* produces a deep blue colour during the enzymatic degradation of H₂O₂ by horseradish peroxidase and gives a clear yellow colour after addition of stop solution.

* 3, 3', 5, 5'-tetramethylbenzidine

REAGENTS

Substrate buffer as well as **hydrogen peroxide** are included in this ready-to-use substrate. No other reagents should be added. Recommended stop solution is 0.18 M sulphuric acid.

THE WORKING PROCEDURE IS VERY SIMPLE

1. The desired amount of substrate is poured into a sealed container and allowed to reach room temperature in the dark.
2. Recommended volumes of 100 µl substrate solution per microtiter well is added. Time of development is typically 5-30 minutes. We recommend the plate to be kept in the dark during incubation i.e. wrapped in tinfoil.
3. The blue colour is read directly in kinetic assays at 650 nm. For endpoint assays 100 µl (equal volumes) of 0.18 M sulphuric acid is added and the absorbance is read at 450/620 nm. The yellow solution is stable for up to one hour.
4. If reduced intensity is required it is recommended to shorten the time of development or to dilute the conjugate/antibody in the immunoassay further.

Dilution of the substrate is not recommended.

RECOMMENDED HANDLING AND STORAGE

The TMB substrates are extremely sensitive to certain handling and storage conditions. Avoid exposure to light, heat and contamination with metal ions or peroxidase. Redisperse only into bottles made of High Density Polyethylene (HDPE), amber colour, i.e. Nalgene 2004, and keep the substrate at 2-8°C in the dark (Dispensing guidelines available upon request).

ECO-TEK® BRAND NAME

The **ECO-TEK** brand name stands for environmentally-friendly products. These products are characterized by offering the highest level of sustainability from replacing toxic components in buffer solutions to wasting less water.