

Manufacturer of Specialty Reagents for ImmunoAssays,  
DNA/RNA-hybridization and ImmunoHistoChemistry

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### **Product Specification/Description Sheet**

ep(HS)TMB, enhanced precipitating TMB Substrate for High Sensitivity blotting and 3D-IF applications, #epTMB

#### **Description:**

ep(HS)TMB is a precipitating peroxidase substrate containing 3,3',5,5'-tetramethylbenzidine (TMB) and hydrogen peroxide in an aqueous buffer formulation. This product is supplied as a one component ready to use solution. Intact substrate is clear colorless to slightly yellowish in appearance. Positive reaction results in precipitating of insoluble permanent dark blue product at the sites of enzymatic HRP activity (where detecting HRP-labeled anti-analyte is bound). This product is in particular developed for using in High Sensitivity ImmunoAssays designed in 3D-IF format.

Compared to our p(HS)TMB and other similar high quality competitor's products it will yield on the average 30% to 50% higher signals by the same clean backgrounds.

ep(HS)TMB features a capacity of spontaneously recovering to the colorless state: if it has turned bluish on light, it will become again completely colorless after several hours keeping it in dark. ep(HS)TMB endures at least 4 recovery cycles:

colorless → light → blue → dark → colorless, etc. without drop in activity.

#### **Stability and Storage/Handling:**

this product, when correctly stored/handled, is stable for two years from day of supply. Both storage regimens, in refrigerator (+2°C/+8°C) and at ambient room temperature (15-25°C), are equally applicable. Storage in refrigerator will neither improve, nor worsen product performance.

Warm to assay (room) temperature prior to use.

Avoid prolonged exposure to light, air and extreme temperatures. When re-dispensing, use only clean intact amber Nunc/Nalge(n) or Wheaton HDPE bottles/containers and certified compatible tubing (e.g. Cole-Parmer/Millipore C-Flex tubing), do not re-filter.

#### **Safety and Hazard Identification:**

this product does not contain volatile organic solvents (as dimethylsulfoxide, dimethylformamide, acetone or methanol). It is a completely water based product added with non-toxic proprietary stabilizers and enhancers that are not health-hazardous. This product is non-hazardous, non-toxic, non-carcinogenic, environmentally safe unrestricted product.