

### **Product Description:**

TMB One Component HRP Membrane Substrate is a ready to use solution containing 3,3',5,5'-tetramethylbenzidine in a mildly acidic buffer. Unreacted substrate should be faint yellow to pink in appearance. When this substrate system is reacted with peroxidase, an insoluble permanent dark blue reaction product is obtained. This substrate is not recommended for microwell or immunohistochemical applications.

### **Hazard Identification:**

TMB One Component HRP Membrane Substrate does not contain aprotic solvents. Please refer to the MSDS for additional information.

### **Product Stability, Storage and Specifications:**

TMB One Component HRP Membrane Substrate is stable for 30 months from date of manufacture when stored at 2°C - 25°C. Storage is recommended at 2°C - 25°C. This substrate is light sensitive and should be protected from direct sunlight and UV sources. Over time, some flocculent material may appear; however, this does not affect product performance

### **Product Use:**

TMB One Component HRP Membrane Substrate is supplied as a ready to use solution. The product should be allowed to equilibrate to room temperature (25°C) prior to use. For use, completely cover the membrane surface with substrate. The substrate system will react with sites on the membrane containing peroxidase producing an insoluble permanent dark blue reaction product. To stop the reaction, rinse the membrane with reagent quality water. The reaction should be monitored and read before the background color becomes to intense which may result in diminished contrast between the positive and background staining. Dilution of the substrate is not recommended. To reduce the intensity of a reaction, it is recommended that the antibodies or conjugates be diluted.

### **References:**

1. Jenison, R., S. Yang, A. Haeberli, and B. Polisky. 2001. *Nat. Biotechnol.* 19:62.

**For technical assistance please call +49 (0) 761-47979-0**