

# Certificate of Analysis

**For Research Use Only**  
**Not for Human or Animal Consumption**

## KPL SureBlue™ TMB Microwell Peroxidase Substrate (1-Component)

**PART CODE:** 5120-0077 (52-00-03)  
**LOT NUMBER:** 10724247  
**SIZE** 1000 mL

**DESCRIPTION:** This liquid substrate system develops a dark blue soluble product when reacted with horseradish peroxidase labeled conjugates in microwell plates or tubes. It is not recommended for membrane or immunohistochemical staining assays.

**FORM/STORAGE:** Liquid. Store refrigerated at 2 - 8°C.

**CONTENT:** The one component system is supplied as 1000 mL bottles, from bulk Lot No. 10724247. The KPL SureBlue™ TMB Microwell Peroxidase Substrate (1-Component) contains 3,3',5,5'- tetramethyl-benzidine in an acidic buffer. The concentration of the Hydrogen Peroxide is 0.01%.

**STABILITY:** Product is stable for three years from date of manufacture when stored properly.

**DATE OF MANUFACTURE:** 31 OCT 2024

**RECOMMENDED REDISPENSING** KPL SureBlue™ TMB Microwell Peroxidase Substrate (1-Component) is extremely sensitive to certain handling and storage conditions. The following suggestions are provided to ensure success when redispersing this product:

- Avoid prolonged exposure to light air or extreme temperatures; however, exposure to indirect laboratory lighting for 24 hours is not harmful.
- Never pipette directly from bottle. Pour out needed amount into a plastic reservoir. Do not return excess KPL SureBlue™ TMB to the primary container.
- Avoid exposure to silica-based materials including borosilicate glass, metals, bacterial contamination or other oxidizing agents. Do not refilter as this may destabilize the dye complex and result in the development of background color.
- Redispense into amber Nalgene HDPE or LDPE bottles ONLY. Do not redispense into glass bottles as this may compromise substrate performance.
- HDPE and LDPE bottles should be utilized as they are received directly from the manufacturer; washing of bottles is not recommended.
- Redispense substrate using Cole-Parmer C-Flex tubing and do not reuse tubing. Avoid redispersing with all other tubings including silicone, latex, and Tygon.
- Gravity fill or the use of a peristaltic pump is advised.
- Avoid substrate contact with any metallic surfaces.
- For further details concerning the redispersing of this product, please contact the Technical Service Dept. at 800-638-3167.

**Approval:**

*Sherrin*  
 QA Verified By

18 NOV 2024  
 Date