

# Certificate of Analysis

For Research Use Only  
Not for Human or Animal Consumption

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

**PART CODE:** 5120-0083 (53-00-03)  
**LOT NUMBER:** 10704315  
**SIZE:** 1000 mL

**DESCRIPTION:** KPL SureBlue Reserve™ develops a deep blue soluble product when reacted with horseradish peroxidase labeled conjugates in microwell plates or tubes. KPL SureBlue Reserve™ provides more sensitivity compared to standard KPL SureBlue TMB substrate. It is suitable for qualitative or quantitative microwell immunoassays and not recommended for membrane or immunohistochemical applications.

**FORM/STORAGE:** Liquid. Store refrigerated at 2 - 8°C. Do not freeze

**CONTENT:** The one component system is supplied as 1000 mL bottles. KPL SureBlue Reserve™ TMB Microwell Peroxidase Substrate (1-Component) contains 3,3',5,5' tetramethylbenzidine in a mildly acidic buffer.

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

**DATE OF MANUFACTURE:** 08 MAY 2024

**RECOMMENDED REDISPENSING** KPL SureBlue Reserve™ 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 exposure to sunlight, air, and extreme temperatures; however exposure to indirect laboratory lighting for 8 hours is not harmful. A pale blue color may become apparent after 4 – 5 hours of exposure to indirect laboratory lighting, but this will not affect product performance.
- Never pipette directly from bottle. Pour out needed amount into a plastic reservoir. Do not return excess KPL SureBlue Reserve™ 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 and 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.

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- Redispense substrate using Platinum Cured Silicone tubing and do not reuse tubing. Avoid redispensing with all other tubings.
- Gravity fill or the use of a peristaltic pump is advised.
- Avoid substrate contact with any metallic surfaces.
- For further details concerning the redispensing of this product, please contact the technical service department at +1.800.676.1881.

**Approval:**

A handwritten signature in black ink, appearing to read 'E. Spiker'.

15 MAY 2024

QA Verified By

Date