

KPL TMB BlueSTOP™ Solution

<u>Catalog No.</u>	<u>Size</u>
5150-0022 (50-85-30)	4 X 100 mL
5150-0024 (50-85-41)	1000 mL

DESCRIPTION

KPL TMB BlueSTOP is specifically designed for use with KPL SureBlue™, KPL SureBlue Reserve™, and KPL TMB 2-Component substrates to stop color development in ELISA. Unlike traditional TMB stop solutions, KPL TMB BlueSTOP allows the chromophore to remain blue, instead of turning yellow. The stopped solution results in a stable blue reaction product.

FORM/STORAGE/STABILITY

5150-0022 (50-85-30) consists of 4 X 100 mL bottles.
5150-0024 (50-85-41) consists of 1 X 1000 mL bottle.

Store at 4°C. Stable for a minimum of 48 months from the date of manufacture.

CONTENT

KPL TMB BlueSTOP is a ready-to use stop solution. pH is approximately 3.5. Additional information is considered proprietary.

PRODUCT SAFETY AND HANDLING

This product is considered non-hazardous as defined by the Hazard Communication Standard (29 CFR 1910.1200). Avoid contact with skin and eyes. In case of contact or spillage, clean with copious amounts of water. Product may be disposed of via sanitary sewer.

APPLICATIONS

Preparation:

Solution is ready-to-use and requires no dilution.

Volume:

KPL TMB BlueSTOP solution should be added to each well in an equivalent volume to the TMB substrate volume.

Stopping TMB:

The addition of KPL TMB BlueSTOP results in a stable blue reaction product. Absorbance values will not change significantly as a result of stopping with KPL TMB BlueSTOP. This allows the user to monitor the substrate reaction and stop the reaction at the desired absorbance value. Stopped TMB should be read at a wavelength between 600 and 650 nm. The stopped plates should be read within two hours after stopping.

When to Stop Substrate Reaction

A stop solution has greatest utility in ELISA assays when the user is working with several microwell plates at one time and development time with the substrate is critical. Microwell plates can then be read without fear of over-development.

Quantitative ELISA:

If the stop solution is being used in a quantitative ELISA assay, the period of incubation with the substrate will depend on several factors, including: desired range of analyte concentration, required sensitivity and reader capabilities.

Qualitative ELISA:

If the stop solution is being used in a qualitative ELISA assay, stop solution can be added at the time that visual discrimination between positive and negative is possible. An example would be the screening of murine monoclonal antibody hybridomas.

NOTE: KPL TMB BlueSTOP has been specifically designed to work with KPL TMB Substrates. Other TMB substrates may appear green when stopped, due to a difference in pH. SeraCare makes no claims regarding how KPL TMB BlueSTOP will work with TMB substrates other than those produced by SeraCare. Conjugate concentrations should not be higher than 1 µg/mL, as excess conjugate may result in a reaction that is difficult to control.

Substrate reaction too fast?

To reduce the intensity of the substrate reaction, it is recommended that the conjugate and/or antibodies in the immunoassay be further diluted. Dilution of the TMB substrate is not recommended.

RELATED PRODUCTS

	CAT. NO.
KPL SureBlue Microwell Substrate	5120-0075 (52-00-01)
KPL SureBlue Reserve Microwell Substrate	5120-0081 (53-00-01)
KPL TMB 2-Component Microwell Peroxidase Substrate System	5120-0047 (50-76-00)

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.