

KPL APstop™ Solution

<u>Catalog No.</u>	<u>Size</u>
5150-0026 (50-89-00)	2 x 100 mL
5150-0028 (50-89-02)	1 x 1000 mL

DESCRIPTION

The KPL APstop Solution is specifically designed for use with the KPL BluePhos® ELISA and the pNPP ELISA Phosphatase Substrate systems in ELISA assays. This solution stops color development by inhibition of the phosphatase enzyme in microwell plates. The resultant chromophore is read at the appropriate wavelength for each substrate.

FORM/STORAGE/STABILITY

The KPL APstop Solution is supplied in 2 x 100 mL bottles. Once diluted 1:10 this kit provides 2000 mL of working stop solution. Store at ambient temperature. Stable for a minimum of 1 year from date of receipt when stored properly.

CONTENT

The KPL APstop Solution is a 10X EDTA-based solution. Additional information regarding this product is considered proprietary.

USE

Preparation

Dilute 1 part KPL APstop Solution with 9 parts reagent quality water to produce a 1X solution. Product should be at room temperature prior to use. Add volume of 1X KPL APstop Solution equivalent to the volume of substrate solution in the wells (recommended volume is 100 µL). The plate can be read immediately at the requisite wavelength.

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.

For best results, allow substrate to react for at least 10 minutes before stopping.

NOTE: The addition of the KPL 1X APstop Solution does not change the color of the substrates and will not significantly change the absorbance values recorded prior to stopping the substrate reaction. This allows the user to monitor the substrate reaction and stop the reaction at the desired absorbance value.

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. The reaction may also be run at 4 °C. Dilution of the substrate is not recommended.

PRODUCT SAFETY AND HANDLING

See product Safety Data Sheet. Avoid contact with skin and eyes. In case of contact or spillage, clean with copious amounts of water. Product may be disposed of down the drain.

RELATED PRODUCTS

CAT. NO.

KPL BluePhos® Microwell Phosphatase Substrate System	5120-0061 (50-88-02)
KPL pNPP Microwell Phosphatase Substrate System	5120-0057 (50-80-01)

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