



K-Blue[®] Luminescent Substrate

Product Insert

Description

K-Blue Luminescent is a stabilized luminescent substrate for use with horseradish peroxidase immunoassays. It contains luminol and hydrogen peroxide (H₂O₂) in a two-bottle format offering long-term stability, high sensitivity and excellent signal-to-noise.

Maximal light emission occurs at 430 nm in the presence of peroxidase labeled conjugate.

K-Blue Luminescent is compliant with Annex XVII for REACH and contains no hazardous substances at or above published reporting levels.

Stability and Storage

K-Blue Luminescent is stable for a minimum of 18 months when stored at 2-8°C.

Appearance

Reagent A is a clear to light pink solution

Reagent B is a colorless solution

Custom Packaging Service

Neogen can package K-Blue Luminescent in custom bottle sizes and volume fills to meet your specific packaging requirements. This service is a time and cost saving feature for any test kit manufacturer. For details on this service, please contact a Neogen Corporation representative.

Product #	Volume
383175	200 mL (2x 100 mL)
383176	500 mL (2 x 250 mL)
383177	1 L (2 x 500 mL)

Recommended Handling

Luminol substrates are sensitive to certain handling and storage conditions. Please note the following precautions when handling Neogen's substrates:

Light Exposure: Product is light sensitive and direct exposure to sunlight should be avoided. Prolonged exposure of the substrate to light (especially sunlight) should be avoided.

Storage Containers: The substrate should only be stored in high quality amber colored plastic or glass bottles. Neogen recommends HDPE amber bottles for Reagent A and HDPE clear or amber bottles for Reagent B.

Dispensing Precautions: Some common metal ions (like iron) can oxidize luminol and other components, causing an increase in background. Neogen recommends that only plastic or glass come in contact with the substrate. When using a dispensing pump make sure that no metal components of the pump come in contact with the substrate. Neogen further recommends that all pumps, tubing and storage containers be dedicated for use with each reagent of K-Blue Luminescent substrate. Avoid the use of rubber stoppers and bottle caps containing rubber rings.

To avoid contaminating the substrate, never pipette directly from the substrate bottle. Always pour necessary volume of substrate into a separate container for use.

Do not leave the cap off of the storage bottle for prolonged periods of time.

Directions for Use

1. Mix equal volumes (1:1) of Reagent A and Reagent B in a clean container. Mix well and protect from light. Equilibrate at room temperature for 30 minutes before use. Mixed solution is stable up to 5 days.
2. Do not contaminate HRP enzyme substrate with HRP enzyme or other proteins.
3. HRP enzyme substrate has a wide range of detectability for HRP enzyme in solution as well as in ELISA. The lower enzyme concentration may be in femtograms and the highest concentration HRP enzyme may be one nanogram depending on the source of the HRP enzyme.
4. Prior to use, it is recommended that your tube and microplate be washed with PBS or TBS, pH 8.5 to 9.25.
5. Best results can be obtained from 2 to 60 minutes after substrate comes into contact with HRP enzyme.

Technical Information

For technical support, please contact our Technical Service Department, Monday - Friday from 8:00 am - 6:00 pm EST.

Phone: 800/477-8201 (USA/CANADA)

Phone: 859/254-1221 (International)

E-mail: techservice-lifesciences@NEOGEN.com

Warranty

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