



K-Blue[®] Luminescent ONE Substrate

Product Insert

Description

K-Blue Luminescent ONE is a stabilized luminescent substrate for use with horseradish peroxidase immunoassays. It contains luminol and hydrogen peroxide (H₂O₂) in a one-bottle format offering long-term stability, sensitivity in the low picogram range and low background.

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

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

Stability and Storage

K-Blue Luminescent ONE is stable for a minimum of 12 months when stored at 2-8°C.

Appearance

Colorless solution

Custom Packaging Service

Neogen can package K-Blue Luminescent ONE 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
384175	200 mL
384176	500 mL
384177	1 Liter

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.

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 ONE 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. K-Blue Luminescent ONE is a ready-to-use (RTU) substrate. No mixing or additional reagents are required. Equilibrate at room temperature for 30 minutes before use.
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 picograms and the highest concentration HRP enzyme may be greater than ten nanograms depending on the source of the HRP enzyme and assay format.
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.

Note: Neogen does not recommend diluting the substrate. Should the chemiluminescence intensity produced during the reaction be too high for your assay, you can:

- Adjust concentrations or volumes of the other assay reagents
- Try one of Neogen's lower activity luminol-based substrates

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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