



K-Gold® Substrate (PNPP)

Product Insert

Description

K-Gold Substrate is a one bottle stabilized chromogenic substrate for use with alkaline phosphatase based immunoassays.

K-Gold Substrate utilizes the substrate p-nitrophenyl-phosphate (PNPP), which is reacted upon by alkaline phosphatase to produce the chromophore p-nitrophenol.

Stability and Storage

K-Gold is stable for a minimum of thirty (30) months from the date of manufacture and should be stored at 2-8°C in the dark. Neogen recommends Nalgene HDPE amber colored bottles for storage.

Appearance

Clear to faint yellow solution

Custom Packaging Service

Neogen can package K-Gold Substrate 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
303175	200 mL
303176	500 mL
303177	1 Liter
303257	20 Liters (1 x 20 Liters)

Recommended Handling

K-Gold Substrate is sensitive to certain handling and storage conditions. Please note the following precautions when handling K-Gold:

Storage Containers - K-Gold should only be stored in high quality amber colored plastic or glass bottles. Neogen recommends Nalgene HDPE amber bottles.

High Temperatures - K-Gold is sensitive to elevated temperatures. It is suggested that the bottle of K-Gold be returned to refrigerated temperature after aliquoting the quantity of K-Gold necessary for an assay.

Redispensing Precautions - Never pipette directly from the K-Gold storage bottle. Always pour necessary amounts into a separate container for use.

Do not leave the cap off the storage bottle of K-Gold Substrate for long periods of time. When opening the substrate bottle place the top, open side up, to prevent contamination.

Directions for Use

K-Gold is a ready-to-use solution. No mixing or additional reagents are required.

1. Thoroughly wash the microplate to remove all unbound conjugate.
2. Add the desired amount of substrate to each well (100 μ l - 150 μ l is recommended). Use a multichannel pipettor for an entire plate.
3. Take absorbance readings with a microplate reader set at a wavelength of 405 nm. If dual wavelength readings are desired, set W1 at 405 nm and W2 at 490 nm or 650 nm.
4. The rate of color formation can be determined or can be read as an end point assay.
Note: If the substrate reaction is too fast for your assay, dilute the antibody or conjugate. Do not dilute the substrate.
5. If it is desired to stop the reaction, add 50 μ L of stop solution, 3N NaOH to each well. Mix gently before reading the wells. Determine the absorbance at 405 nm.

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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