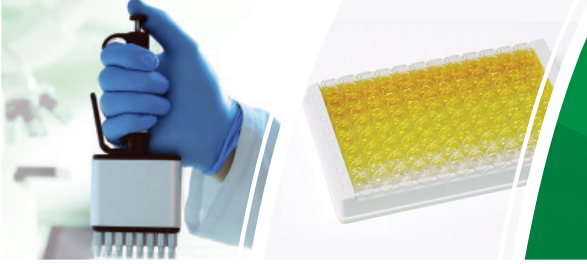


K-Gold® Plus PNPP Substrate

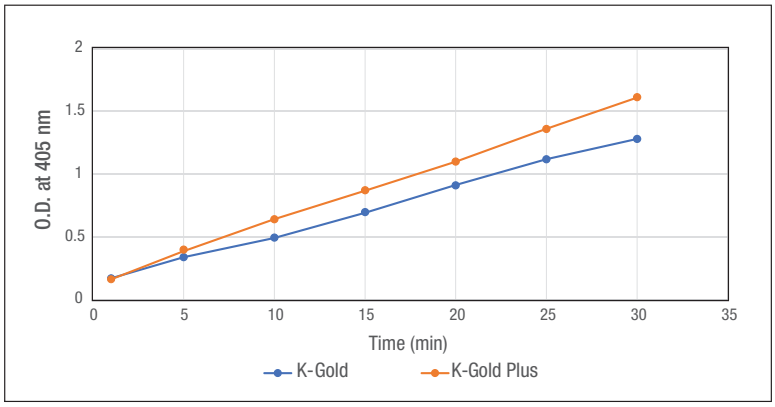
Introduction

K-Gold Plus is an innovative one-bottle PNPP substrate that offers excellent activity and signal-to-background ratio compared to other PNPP substrates. K-Gold Plus offers approximately 30-40% rate enhancement compared to our original K-Gold substrate – this corresponds to an average increase in signal-to-background of approximately 64% for K-Gold Plus.

Neogen's ISO 9001 certified quality management system ensures that we use high-quality development and manufacturing processes for all of our substrate formulas. Neogen consistently provides large diagnostic kit manufacturers high performance substrates following the ISO quality standard.

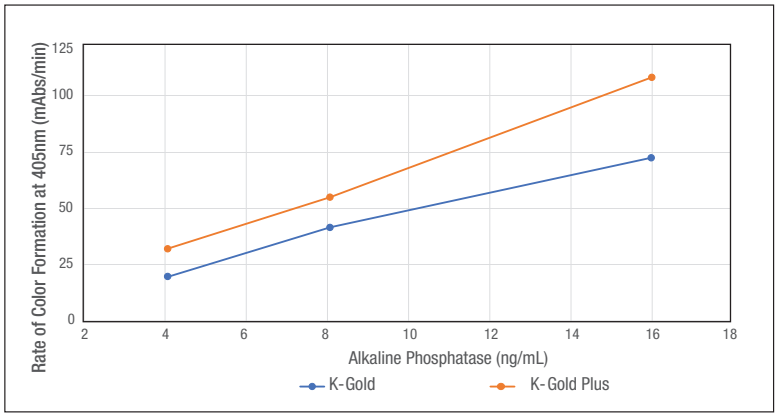
Performance Comparison:

Improved Activity & Sensitivity



Five microliters of calf-intestinal alkaline phosphatase (AP) + ninety-five microliters of substrate per well. OD read at 405 nm over 30 minutes.

Linearity of Response

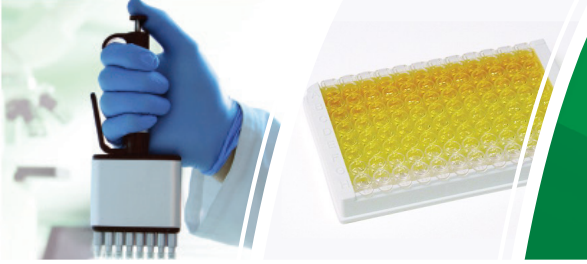


Five microliters of calf-intestinal alkaline phosphatase (AP) diluted in AP conjugate stabilizer was added to a standard flat bottom 96-well microtiter plate and ninety five microliters of substrate was added. Rate was measured every fifteen seconds for thirty minutes.

K-Gold Plus offers:

- Improved performance and activity
- Ready-to-use, one-bottle formula
- 24-month shelf life when stored at 2-8ºC
- Contains no hazardous components and requires no hazardous labeling

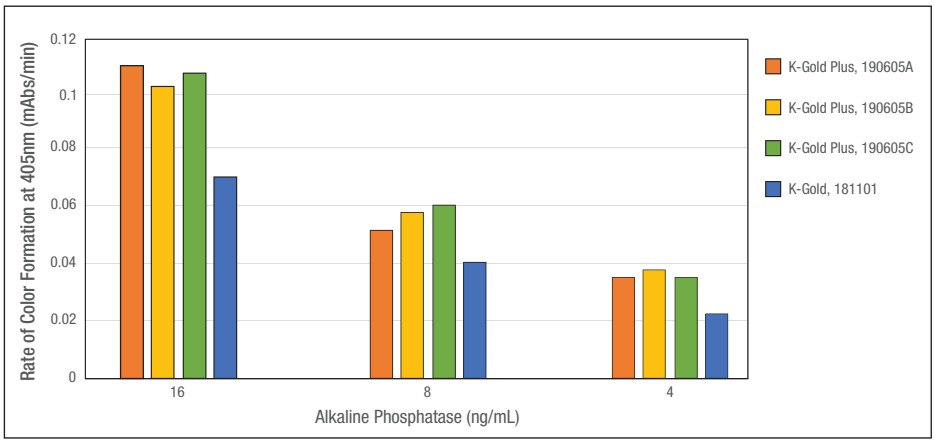
NEOGEN®



K-Gold® Plus PNPP Substrate

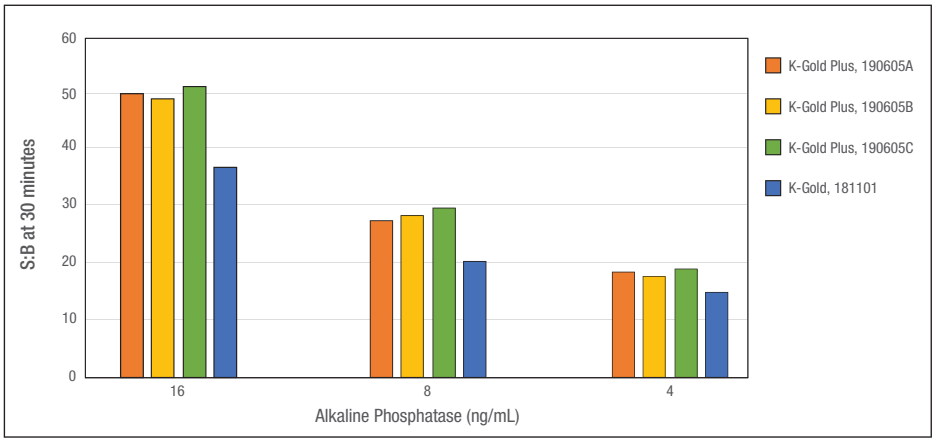
Performance Comparison:

Activity Comparison



K-Gold Plus shows an average rate enhancement of 38%.

Signal-to-Background (S:B) Comparison



K-Gold Plus shows an average increase for S:B ratio of 64%.

Neogen's PNPP Substrate Ordering Details

Product	Shelf Life	Features	Available Sizes	Product No.
K-Gold Plus	24 months when stored at 2-8ºC	• Improved activity • RTU (ready-to-use) • Low background	200 mL 500 mL 1 L 20 L (1 x 20 L)	339175 339176 339177 339257
K-Gold	30 months when stored at 2-8ºC	• High activity • RTU (ready-to-use) • Low background	200 mL 500 mL 1 L 20 L (1 x 20 L)	303175 303176 303177 303257

NEOGEN®
800-477-8201 (USA/Canada) • 859-254-1221
inform@neogen.com • lifesciences.neogen.com

©Neogen Corporation, 2019. Neogen and K-Gold are registered trademarks of Neogen Corporation, Lansing, Mich. All other trademarks are property of their respective owners.