



Ready-to-use | REACH Compliant | Long-term Stability

**K-BLUE® LUMINESCENT ONE**



## K-Blue® Luminescent ONE

Neogen® has expanded its chemiluminescent product portfolio to include an innovative one-bottle chemiluminescent horseradish peroxidase (HRP) substrate — K-Blue® Luminescent ONE. Unlike most other formulations, K-Blue Luminescent ONE is ready-to-use, which reduces plastic waste and eliminates mixing errors.

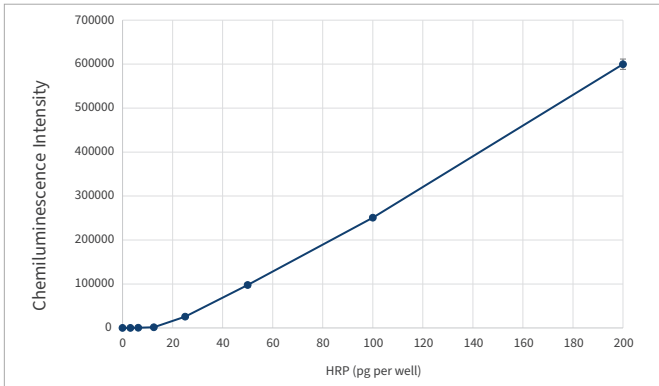
K-Blue Luminescent ONE is a luminol-based substrate that offers high sensitivity in the nanogram to picogram range and has good long-term stability. The substrate is optimized to emit max light signal at 430 nm and is intended for microwell applications.

Our ISO 9001 certified quality management system ensures that we use high-quality development and manufacturing processes for our K-Blue formulas. We consistently provide diagnostic kit manufacturers high performance substrates following the ISO quality standard. K-Blue Luminescent ONE demonstrates excellent lot-to-lot consistency.

### *K-Blue Luminescent ONE Offers:*

- Linear range from nanogram to picogram
- Convenient one-bottle solution for ease of use
- Reduce plastic waste
- Simple workflow to eliminate mixing errors
- Minimum shelf life of 12 months at 2–8°C
- Compliant with Annex XVII for REACH

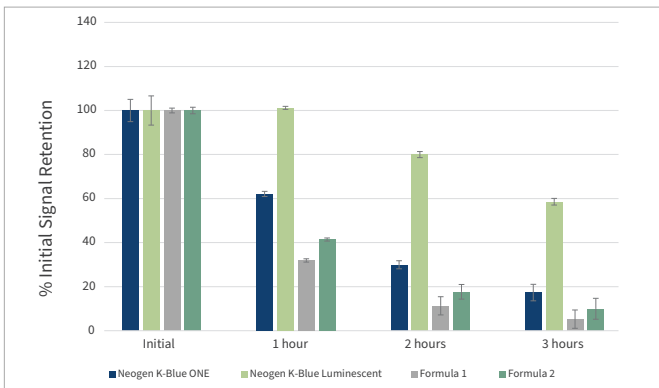
## Dose-response Curve



HRP diluted to 20, 10, 5, 2.5, 1.2, 0.62, and 0 ng/mL in phosphate-buffered saline (PBS) is added at 10  $\mu$ L/well + 140  $\mu$ L of K-Blue Luminescent ONE

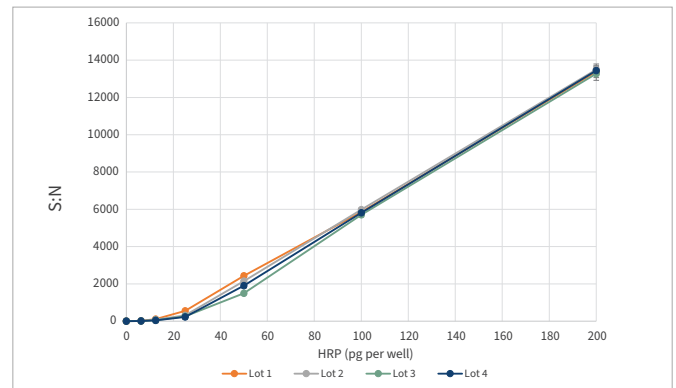


## Signal Retention Comparison



HRP diluted at 20 ng/mL in PBS is added at 10  $\mu$ L/well + 140  $\mu$ L of K-Blue Luminescent ONE

## Lot-to-lot Consistency



Background: PBS containing no HRP is added at 10  $\mu$ L/well + 140  $\mu$ L of K-Blue Luminescent ONE

Signal: HRP diluted to 20, 10, 5, 2.5, 1.2, and 0.62 ng/mL in PBS is added at 10  $\mu$ L/well + 140  $\mu$ L of K-Blue Luminescent ONE

## Neogen Chemiluminescent HRP Substrates

Product	Application	Shelf Life	Product Features	Available Sizes	Product No.
K-Blue Luminescent ONE	HRP Microwell	12 months when stored at 2–8°C	Sensitivity in low picogram range Luminol-based chemistry One component system	200 mL	384175
				500 mL	384176
				1 L	384177
K-Blue Luminescent	HRP Microwell	18 months when stored at 2–8°C	Sensitivity in low femtogram range Luminol-based chemistry Two component system	200 mL (2 x 100 mL)	383175
				500 mL (2 x 250 mL)	383176
				1 L (2 x 500 mL)	383177
Chemiluminescent Elite Plus	HRP Microwell & Membrane	18 months when stored at 2–8°C	Sensitivity in low picogram range Luminol-based chemistry Two component system	200 mL (2 x 100 mL)	324175
				500 mL (2 x 250 mL)	324176
				1 L (2 x 500 mL)	324177
Chemiluminescent Elite	HRP Microwell & Membrane	18 months when stored at 2–8°C	Sensitivity in picogram range Luminol-based chemistry Two component system	200 mL (2 x 100 mL)	323175
				500 mL (2 x 250 mL)	323176
				1 L (2 x 500 mL)	323177

