

# BluePhos<sup>®</sup>

BluePhos turns from yellow to a brilliant blue in the presence of AP enzyme.

## Phosphatase Substrate System for ELISA

The phosphatase substrate you've been waiting for -

BluePhos<sup>®</sup> produces a deep blue reaction product when reacted with alkaline phosphatase-labeled conjugates. The substrate remains blue after stopping and is read at 595-650 nm. The fast rate of color generation permits accurate, quantitative measurement in kinetic ELISA. The end product produces a strong color for direct visualization.

BluePhos offers excellent signal-to-noise providing improved sensitivity and lower background than other phosphatase substrates. KPL's BluePhos offers these advantages.

### It's stable!

BluePhos provides one year stability from date of manufacture. Its stability make it an excellent choice for IVD or research applications.

### It's convenient!

BluePhos is stabilized as a two-component liquid that is easy to prepare. Just mix equal parts and use - no tablets to dissolve. When combined with KPL's BluePhos Stop Solution, signal development is stopped for endpoint determinations.

### It's sensitive!

BluePhos offers more sensitivity than pNPP, and can detect less than 0.5 pg of phosphatase. It produces a linear reaction rate for a longer period of time than pNPP with lower background.

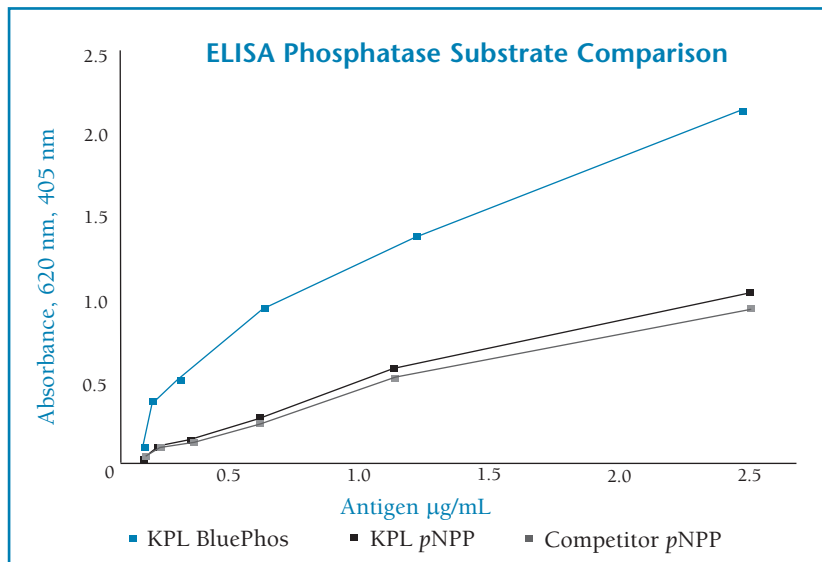
### It's reliable!

BluePhos is optimized for consistent results from lot-to-lot, and assay-to-assay. The inherent inconsistency caused by dissolving tablets is not a concern with BluePhos.

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Immunoassays

## Phosphatase Substrate System for ELISA



**Procedure:** Human IgG at 2.5 µg/mL was serially diluted down on ELISA plate and allowed to bind for 1 hour. The plate was blocked with KPL MilkDiluent/Block Solution (1:10) for 5 minutes. Alkaline phosphatase-labeled Anti-Human IgG (H+L) (0.5 µg/mL) in Milk Diluent (1:4) was added and incubated for 30 minutes. The plate was washed 3 times with KPL Wash Solution (1X). Substrate was added (100 µL) and the plate incubated for 15 minutes, then read at 620 nm (BluePhos) or 405 nm (pNPP).

**Results:** BluePhos yielded higher O.D. readings for the same antigen concentration when compared to two sources of pNPP.

**Conclusion:** BluePhos can detect lower quantities of alkaline phosphatase and is more sensitive than pNPP. As a result, greater signal-to-noise is achieved relative to pNPP.

## Ordering Information

Catalog#	Description	Size
50-88-02	BluePhos Phosphatase Substrate for ELISA	50 mL
50-88-00	BluePhos Phosphatase Substrate for ELISA	600 mL
50-88-01	BluePhos Phosphatase Substrate for ELISA	2700 mL
50-89-00	BluePhos Stop Solution Concentrate (10X)	200 mL

To order or for more information on KPL's full line of protein and nucleic acid detection products, contact us at 800.638.3167 / 301.948.7755, FAX 301.948.0169 or visit us at [www.kpl.com](http://www.kpl.com).

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# BluePhos®

## Form/Storage/Stability

BluePhos is a 2-component liquid substrate system. Store components at 2-8°C. Stable for a minimum of 1 year when stored at 2-8°C.

## Related Products

### 50-61-00

BSA Diluent/Blocking Solution  
200 mL

### 50-82-01

Milk Diluent/Blocking Solution  
200 mL

### 50-84-00

Coating Solution Concentrate (10X)  
50 mL

### 50-63-00

Wash Solution Concentrate (20X)  
800 mL

### 55-15-00

APStabilizer  
200 mL



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