

# Lumi-Phos Plus

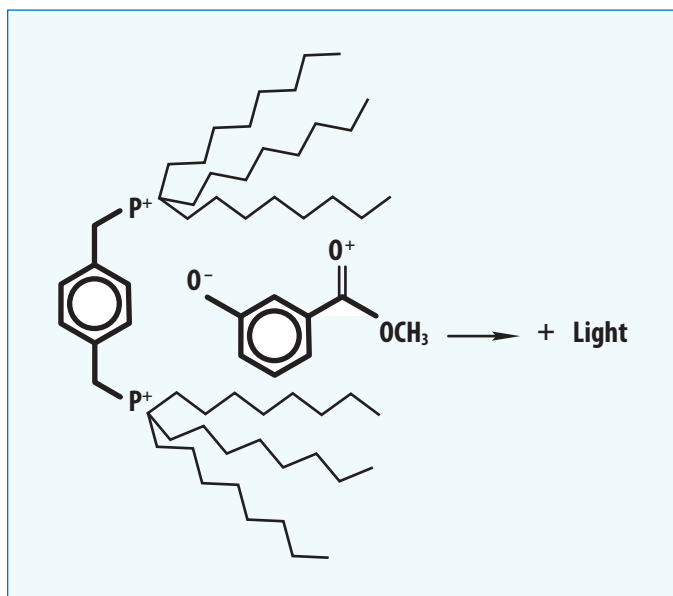
## Blotting AP Substrate

Lumi-Phos Plus is a novel, ready-to-use chemiluminescent reagent formulation containing the alkaline phosphatase (AP) substrate, Lumigen PPD and a patented enhancer. Lumi-Phos Plus is recommended for either direct chemiluminescent detection of

alkaline phosphatase (AP) labeled nucleic acids or indirectly to detect hapten labeled nucleic acids probed with specific anti-hapten antibodies conjugated with AP on a Southern blot membrane or any other solid surface.

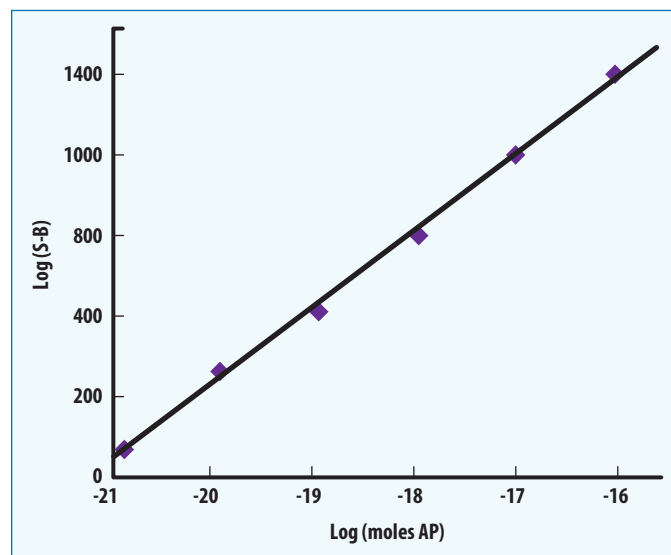
- \* **Excellent sensitivity** – single copy gene detection
- \* **High intensity light production** – with low background
- \* **Sustained luminescence** – with low concentrations of AP the light intensity remains constant for several hours

### Reaction Mechanism



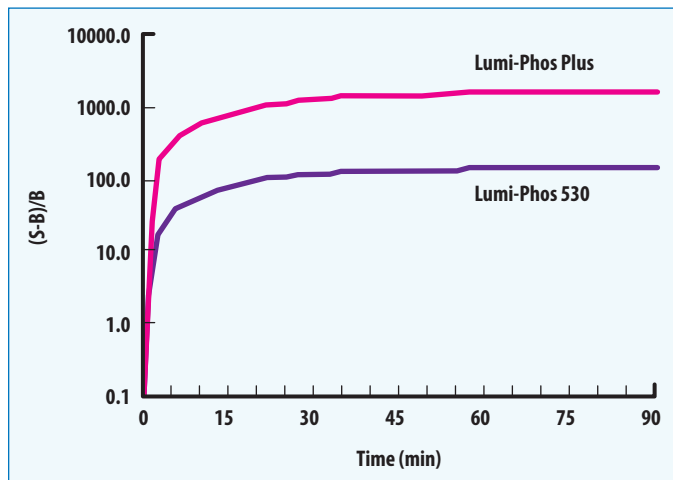
### Excellent Sensitivity

Lumi-Phos Plus formulation provides superior signal to background over Lumi-Phos 530. 10<sup>-21</sup> moles of alkaline phosphatase can be detected within minutes of enzyme introduction.



## Kinetic Profile

Lumi-Phos Plus has a significantly higher signal to background ratio than Lumi-Phos 530 due to its lower reagent background. Lumi-Phos Plus reaches 90% of maximum light output approximately 27 minutes after introduction of enzyme in homogeneous assays at 37°C.



### Product Specifications

<b>Enzyme</b>	Alkaline Phosphatase (AP)
<b>Application</b>	Southern and Northern Blotting, Dot Blots, cDNA Arrays, Colony and Plaque Probing
<b>Sensitivity</b>	Single copy gene detection on genomic Southern blot

### Ordering Information

Description	Catalog Number
Lumi-Phos Plus (100 mL)	P-701
Lumi-Phos Plus (1 L)	P-7000

Please visit [www.LUMIGEN.com](http://www.LUMIGEN.com) or contact LUMIGEN to request a quote.

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