

# Lumigen APS-5

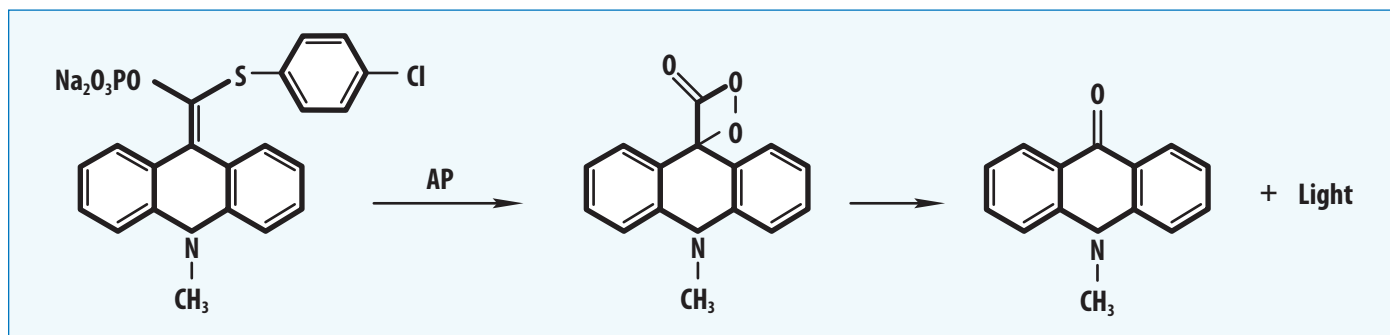
## ELISA AP Substrate

Lumigen APS-5 is a proprietary acridan based chemiluminescent substrate for ELISA detection of alkaline phosphatase (AP) conjugated molecules. The unique acridan chemistry of Lumigen APS-5 provides temperature insensitive light output and more rapid peak intensity as compared to the dioxetane based AP substrates, Lumi-Phos 530 and Lumi-Phos Plus.

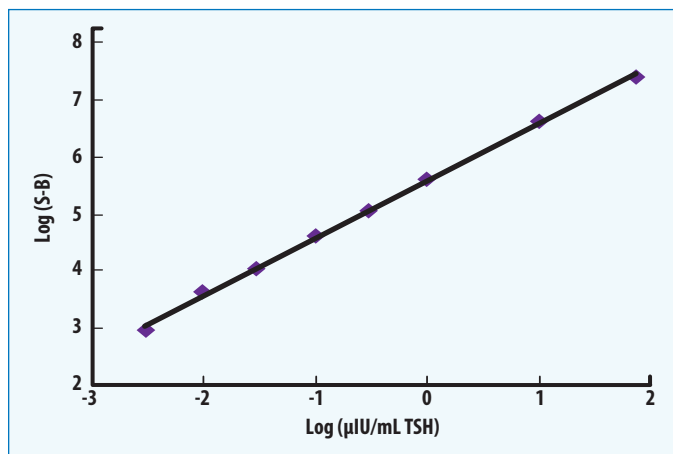
Lumigen APS-5 utilizes a unique technology for the chemiluminescent detection of alkaline phosphatase conjugates which combine excellent sensitivity with ease of use. Reaction of the acridan substrate with an AP label rapidly produces sustained high-intensity chemiluminescence. Lumigen APS-5 is ideally suited for solution assays of phosphatase activity and for phosphatase-linked immunoassays.

- \* **Excellent sensitivity** – less than 5 pg of protein target
- \* **High intensity light production** – reduced assay time and increased throughput
- \* **Sustained luminescence** – analytical results are insensitive to temperatures from 22°C - 35°C reducing the need for precise temperature control

### Reaction Mechanism

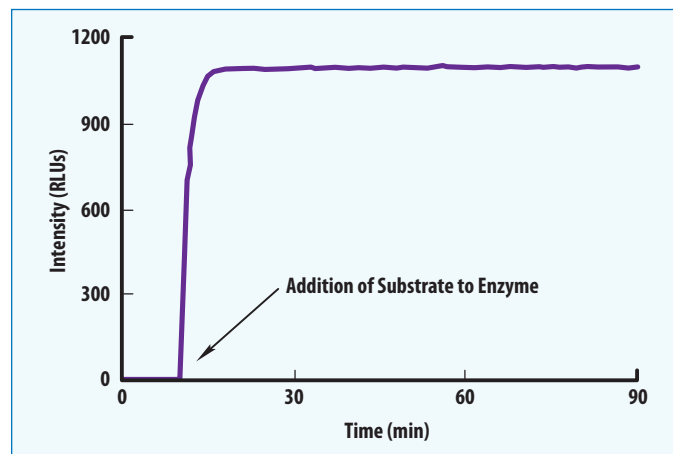


### Linear Calibration Curve



**Figure 1.** A sandwich immunoassay for thyroid stimulating hormone (TSH) performed with an Immulite® Third Generation TSH Assay kit yielded a linear plot from 0.003 to 75 µIU/mL with excellent assay precision.

### Rapid Peak Intensity



**Figure 2.** Lumigen APS-5 reaches a sustained maximum light-output peak intensity within seconds of substrate addition. Signal intensities can be read at any time along the profile to produce linear calibration curves.



#### Product Specifications

<b>Enzyme</b>	Alkaline Phosphatase (AP)
<b>Application</b>	ELISA
<b>Sensitivity</b>	Low picogram to femtogram

#### Ordering Information

Description	Catalog Number
<b>Lumigen APS-5 (100 mL)</b>	<b>AP5-101</b>
<b>Lumigen APS-5 (1 L)</b>	<b>AP5-1000</b>

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

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