

# KPL ELISA Substrates - Detection Ranges

Selecting an ELISA substrate can be difficult and confusing. Understanding their dynamic ranges and limits of detection can help. Use this chart to find the best match for your assay.

## Select the Best Substrate for Your Assay

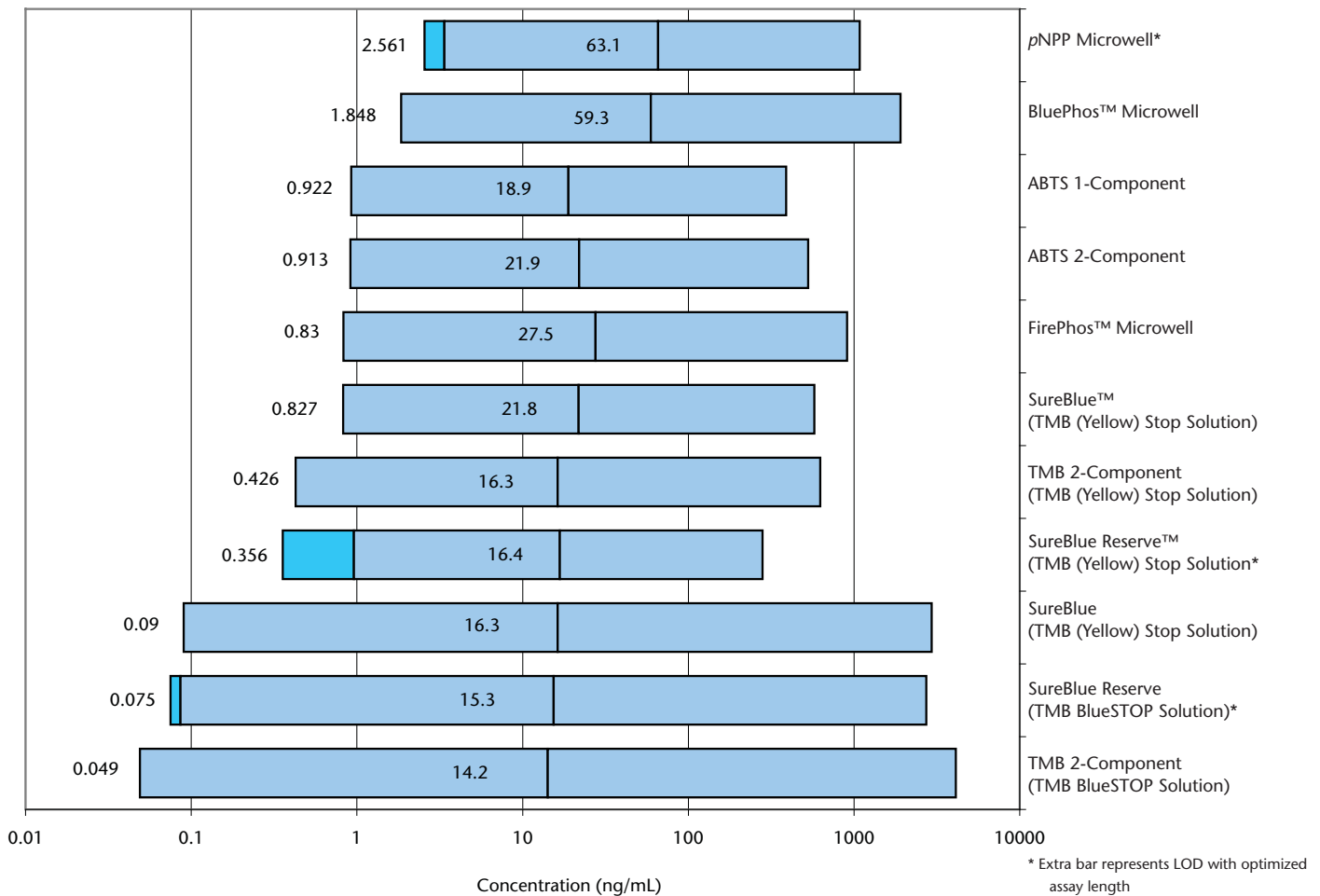
### Colorimetric Substrate

- HRP substrates provide better sensitivity than AP substrates.
- TMB substrates stopped with TMB BlueSTOP™ have wider dynamic ranges than those stopped with traditional TMB stop solution (acid stop).
- If using acid-stopping TMB substrates, SureBlue Reserve will provide the lowest limit of detection.
- If stopping with TMB BlueSTOP, TMB 2-Component will provide the lowest limit of detection.
- If using AP colorimetric substrates – FirePhos™ will provide the lowest limit of detection.

### Chemiluminescent Substrate

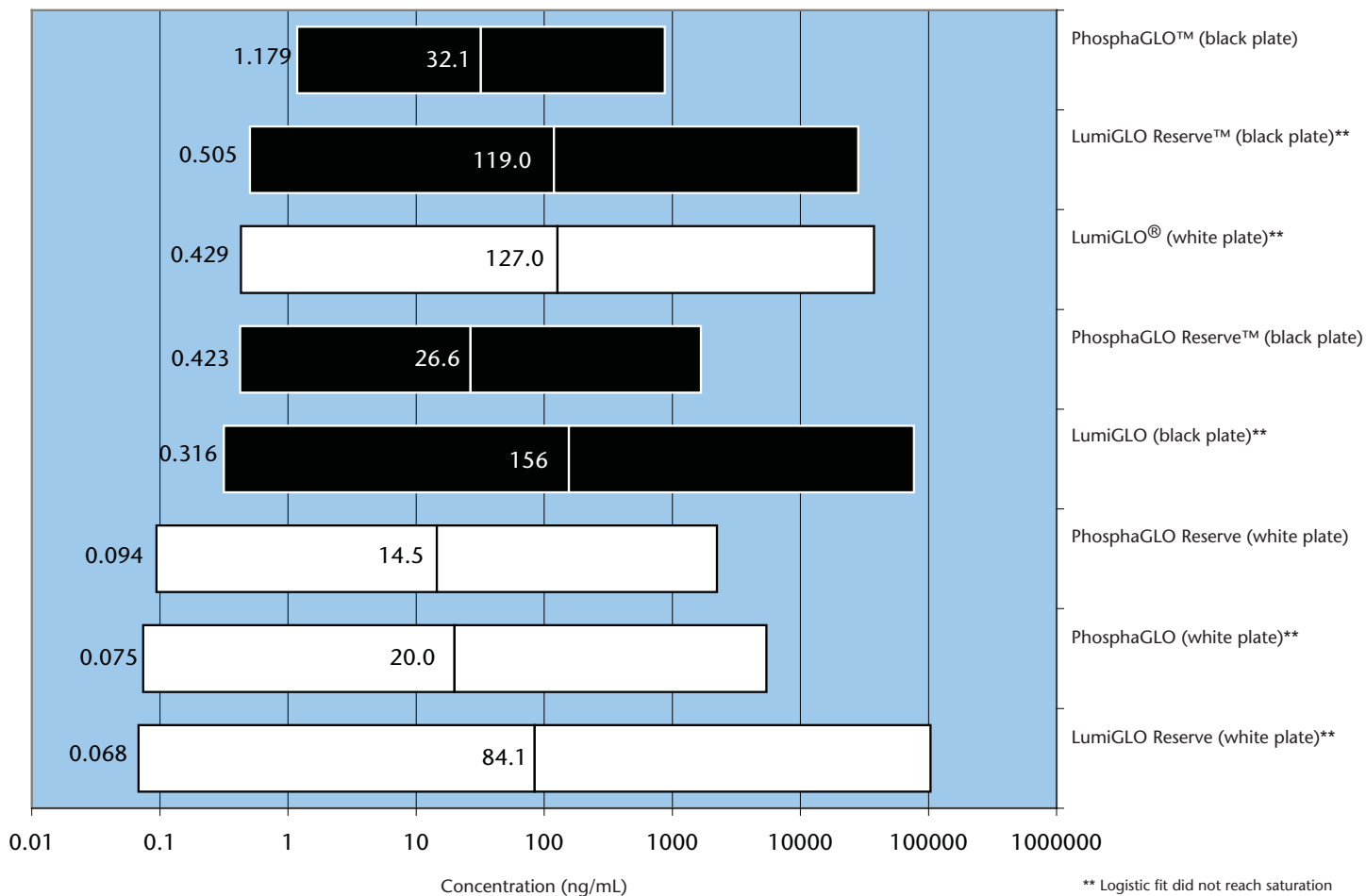
- Black plates produce lower background numbers.
- White plates allow for stronger signal, but are more prone to spill over.
- HRP substrates provide better sensitivity than AP substrates.
- HRP substrates have wider dynamic ranges.
- LumiGLO Reserve™ provides the lowest limit of detection.

**ELISA Colorimetric Substrates - Detection Ranges**  
Indirect Sandwich ELISA



# ELISA Chemiluminescent Substrates - Detection Ranges

Indirect Sandwich ELISA



\*\* Logistic fit did not reach saturation  
The vertical line "I" indicates midrange.

## Product Information

### Colorimetric Substrates

#### Description

##### Peroxidase

Description	Catalog No.	Size
ABTS® Ready-to-Use Microwell Peroxidase Substrate	50-66-00	600 mL
ABTS 2-Component Microwell Peroxidase Substrate	50-62-00	600 mL
SureBlue™ TMB Ready-to-Use Microwell Peroxidase Substrate	52-00-02	400 mL
TMB 2-Component Microwell Peroxidase Substrate	50-76-00	600 mL
SureBlue Reserve™ Ready-to-Use Microwell Substrate	53-00-02	400 mL

##### Phosphatase

pNPP Microwell Substrate	50-80-00	500 mL
BluePhos™ Microwell Substrate	50-88-00	600 mL
FirePhos™ Microwell Phosphatase Substrate	50-87-30	600 mL

### Chemiluminescent Substrates

#### Peroxidase

LumiGLO® Chemiluminescent Substrate	54-61-01	720 mL
LumiGLO Reserve™ Chemiluminescent Substrate	54-71-01	600 cm <sup>2</sup>

#### Phosphatase

PhosphaGLO Reserve™ AP Substrate	55-60-02	100 mL
PhosphaGLO™ AP Substrate	55-60-04	100 mL

For help call the experts at

800.638.3167 or email techserv@

kpl.com. See our comprehensive

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