

## Sword ELISA Booster

Sword Diagnostics is developing a new plug-in performance booster for ELISA assays to enable trace detection of biomarkers and offer researchers:

- Increased sensitivity: **10x to 30x improvement**
- Increased precision at LoD: **CVs  $\leq$ 5%**
- Lower limit of detection: **10x to 30x improvement**
- Detection of low abundance targets: **pg/mL**
- Less Noise / Background
- Decreased plate to plate variability
- Generally compatible with your existing ELISA without assay re-design

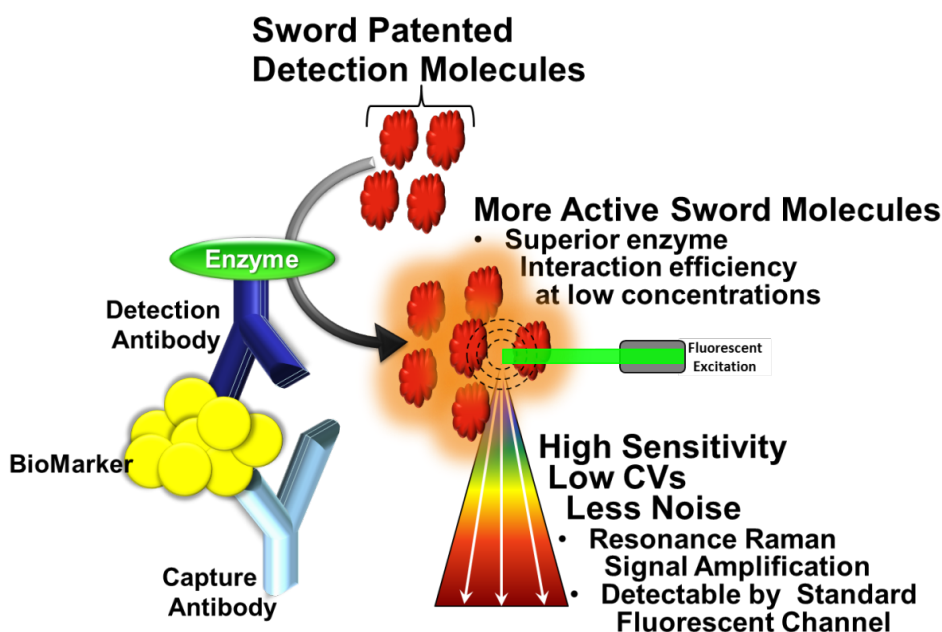
The increase in sensitivity and precision enable other potential benefits:

- Detect low abundance markers
- Reduce sample volume
- Reduce assay time by decreasing incubation time
- Increase throughput moving to 384
- Greater confidence at the current level of quantitation

### How it works:

The Sword ELISA Booster uses standard fluorescent microplate readers and immunoassay chemistry. It is a proprietary alternative substrate that is converted to a Resonance Raman-active substrate in the presence of horseradish peroxidase (HRP) and fluorescent excitation. This enhances performance of the assay with:

1. Superior enzyme/substrate interaction at low concentrations producing more Resonance-Raman molecules
2. High Sensitivity, Consistently Low CVs and Less Noise relative to traditional ELISA detection chemistries



Contact us to improve your ELISA sensitivity! - [cmurphy@sworddiagnostics.com](mailto:cmurphy@sworddiagnostics.com) - (858) 337 7111