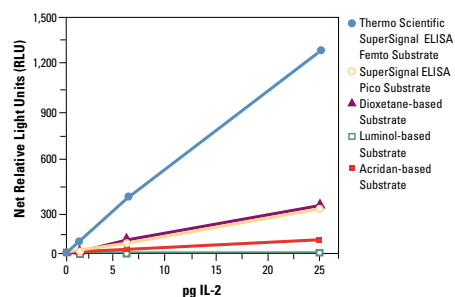
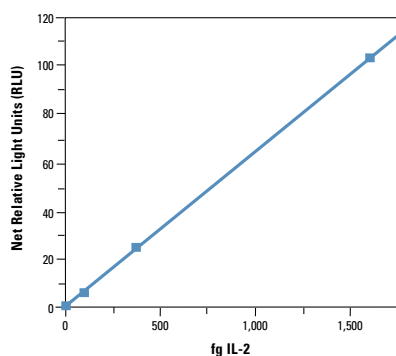


Electrophoresis, Blotting and Immunodetection

Enzyme substrates/kits - Chemiluminescence



Signal intensity and kinetics comparison of chemiluminescent substrates. The dose response curve using SuperSignal ELISA Femto maximum sensitivity substrate in an IL-2 ELISA was compared to curves generated with a dioxetane based substrate, another luminol based substrate, an acridan based system and TMB. SuperSignal ELISA Femto maximum sensitivity substrate demonstrated immediate light generation with maximum peak intensity and high RLU values.



Femtomogram detection of target protein and superior low-end linearity. The dose response curve generated from an IL-2 ELISA illustrates the exceptional low-end linearity achieved with SuperSignal ELISA Femto substrate and the incredible sensitivity, which was down to 168fg of Interleukin-2. The R² value of the curve was 1.00 for signal generated at less than 1,600fg of IL-2.

SuperSignal ELISA Femto maximum sensitivity HRP substrate, Thermo Scientific Pierce

Thermo SCIENTIFIC

NEW

PN

The most powerful substrate for high throughput screening/diagnostic applications with high sensitivity and superior low end linearity.

- Emits light at 425nm
- Immediate light generation – intense signal generated immediately at both room temperature and 37°C
- Improved low end linearity – easy detection of low quantities of proteins with high signal:noise ratios and low end linearity of dose response curves
- High sensitivity – femtomogram level detection of target proteins

Thermo Scientific Pierce SuperSignal ELISA Femto maximum sensitivity substrate is formulated for superior protein detection and low end linearity in ELISA applications.

SuperSignal ELISA Femto substrate's rapid signal generation has the added benefit of decreasing the substrate incubation period, generating detectable light within 1min of addition to trace amounts of soluble HRP, saving up to 30min per assay. This feature is ideal for high throughput screening (HTS) applications in which as many as 100,000 assays may be run daily on robotic equipment.

Catalogue No	Description
PN37075	SuperSignal ELISA Femto maximum sensitivity substrate, 100mL Includes: Luminol/enhancer, 50mL Stable peroxide solution, 50mL
PN37074	SuperSignal ELISA Femto maximum sensitivity substrate, 250mL Includes: Luminol/enhancer, 125mL Stable peroxide buffer, 125mL



100 fg 10 fg 1 fg



True femtomogram detection of IκB using Thermo Scientific Pierce SuperSignal West femto maximum sensitivity substrate. Serially diluted samples from 100 to 1fg were run on 4 to 20% Thermo Scientific Pierce Precise precast gels. The protein was then transferred to PVDF membrane and blocked with Thermo Scientific Pierce Starting Block blocking buffer for 1 hour at room temperature (RT). The blot was incubated in rabbit anti-IκBa (1mg/mL) at 1:1,000 dilution overnight at 4°C, followed by incubation in goat anti-rabbit HRP (1mg/mL) at 1:200,000 dilution for 1 hour at RT. The membrane was exposed to Thermo Scientific Pierce CL-XPosure film for 1 minute.

SuperSignal West Femto maximum sensitivity substrate, Thermo Scientific Pierce

Thermo SCIENTIFIC

NEW

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Thermo Scientific Pierce SuperSignal West Femto substrate is the most sensitive chemiluminescent substrate system for Western blotting with horseradish peroxidase (HRP) enzyme.

The substrate kit enables detection of low femtomogram amounts of protein deposited on nitrocellulose or PVDF membrane and probed with appropriate primary and secondary antibodies.

- Conserve costly antibodies – suggested antibody dilutions (from 1mg/mL stock):
Primary: 1/5,000-1/100,000
Secondary: 1/100,000-1/500,000
- Intense signal – easy to capture an image on film or using an imager system
- Excellent signal duration – 8hr
- Quantitative – measurable signal over two orders of magnitude

Catalogue No	Description
PN34096	SuperSignal west femto maximum sensitivity substrate, 200mL Sufficient substrate for 2,000cm ² of blotting membrane. Includes: Luminol/enhancer solution, 100mL Stable peroxide solution, 100mL
PN34095	SuperSignal west femto maximum sensitivity substrate, 100mL Sufficient substrate for 1,000cm ² of blotting membrane. Includes: Luminol/enhancer solution, 50mL Stable peroxide solution, 50mL
PN34094	SuperSignal west femto maximum sensitivity substrate trial kit, 20mL Sufficient substrate for 200cm ² of blotting membrane. Includes: Luminol/enhancer solution, 10mL Stable peroxide solution, 10mL