



2023

THE RIGHT LIGHT

HYPERNOVA

Extreme-Sensitive ECL Substrate

PRESENTATION



CYANAGEN has developed a new extreme-sensitive ECL substrates:

- **WESTAR HYPERNOVA** optimized for Western blotting
- **ELISTAR HYPERNOVA** optimized for ELISA/CLIA

A decorative graphic at the bottom of the slide. It features several overlapping, wavy lines in a spectrum of colors: red, orange, yellow, green, and blue. The lines are composed of many thin, parallel strokes, creating a sense of motion and depth. In the center of this graphic, the words "THE RIGHT LIGHT" are written in a white, outlined, sans-serif font.

THE RIGHT LIGHT

Extreme-sensitivity

Detect trace-amounts of proteins

High signal to noise ratio

Increase the significance of your experiment

Money-saving

Save sample/antibodies for your immunoassay

High signal intensity

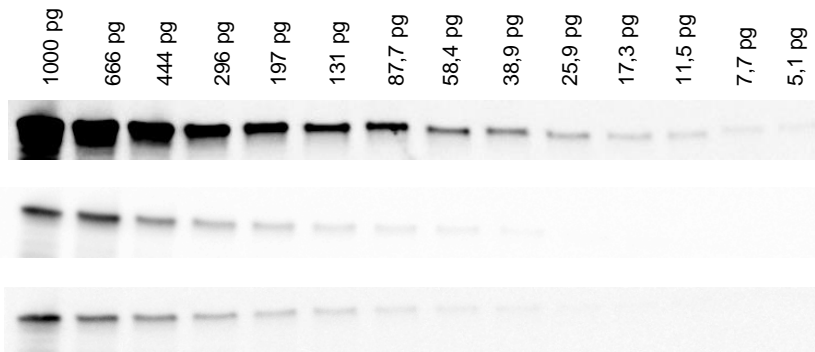
Shorten the exposure time

New worldwide patented technology

WESTAR HYPERNOVA for Western blotting



Detect trace amount of proteins

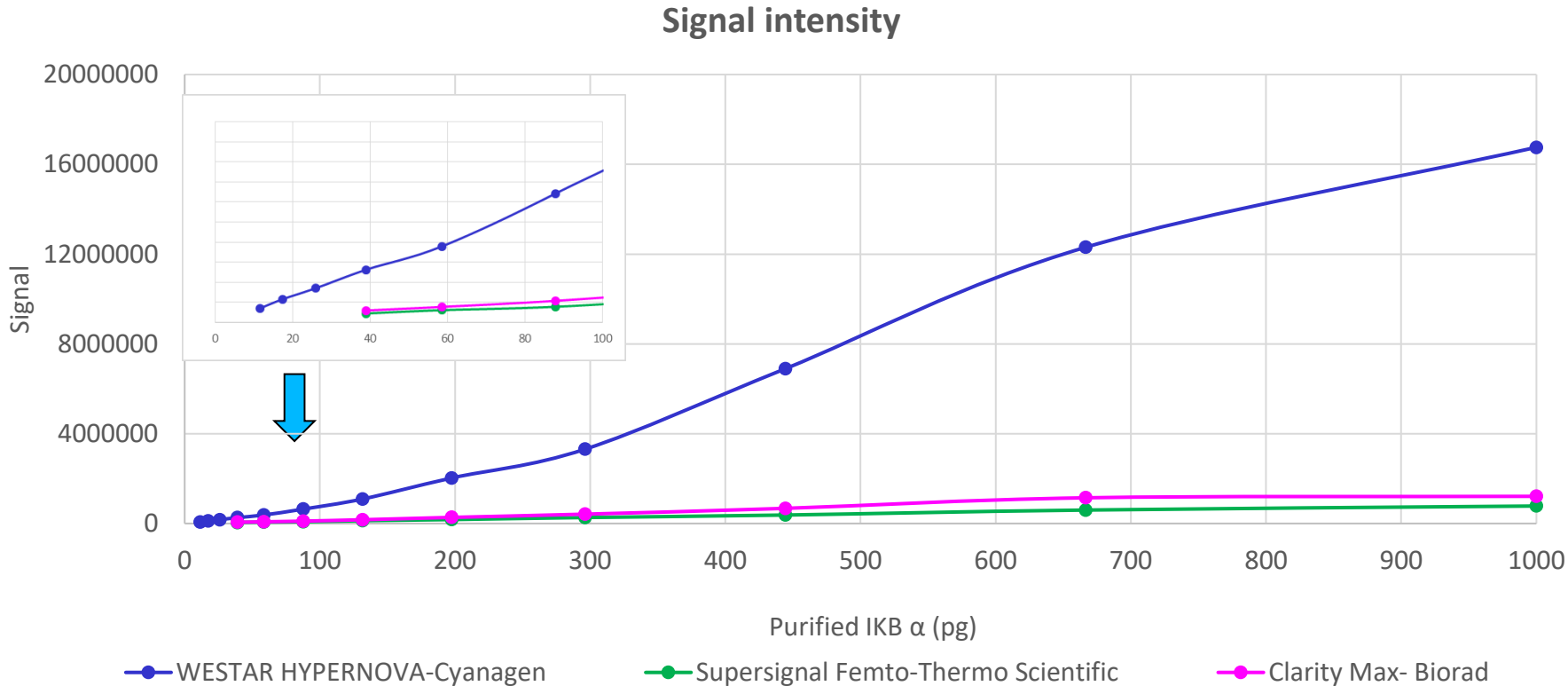


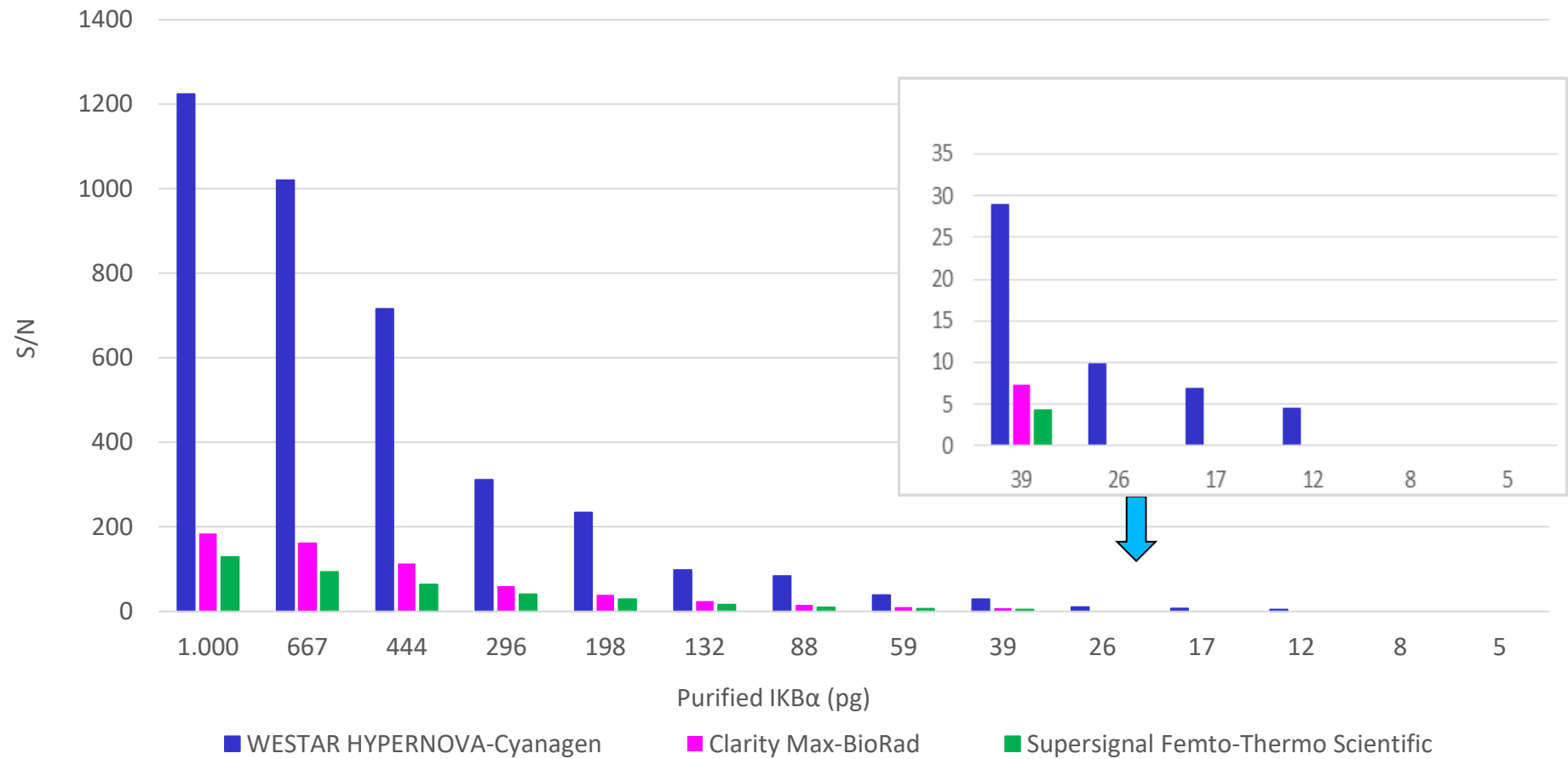
WESTAR HYPERNOVA-Cyanagen

Clarity Max™-BioRad

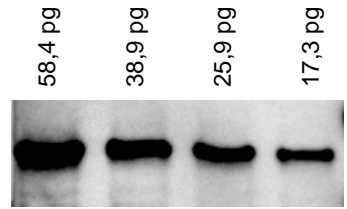
SuperSignal™ Femto- Thermo Scientific

Western blotting detection of purified IKB α
 Purified IKB α 1,5 -fold dilutions from 1000 to 5,1 pg
 Ab 1° Rabbit anti IKB α 1:1000
 Ab 2° Goat anti rabbit 1:500000
 Exposure time: 10 seconds
 Imager: LAS4000 (GEHC)

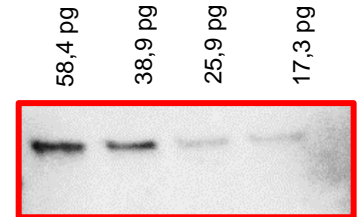




**A higher signal-to-noise ratio enables
CLEARER INTERPRETATIONS OF LOW EXPRESSED BANDS**

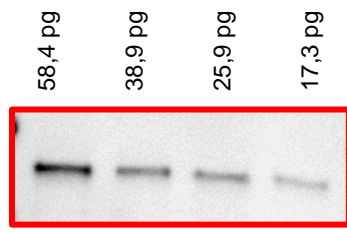


Primary antibody: 1/5000

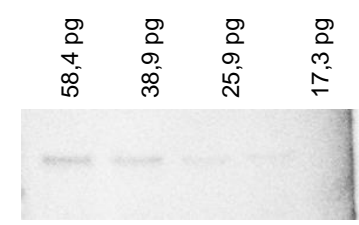


Primary antibody: 1/50000

WESTAR HYPERNOVA-Cyanagen

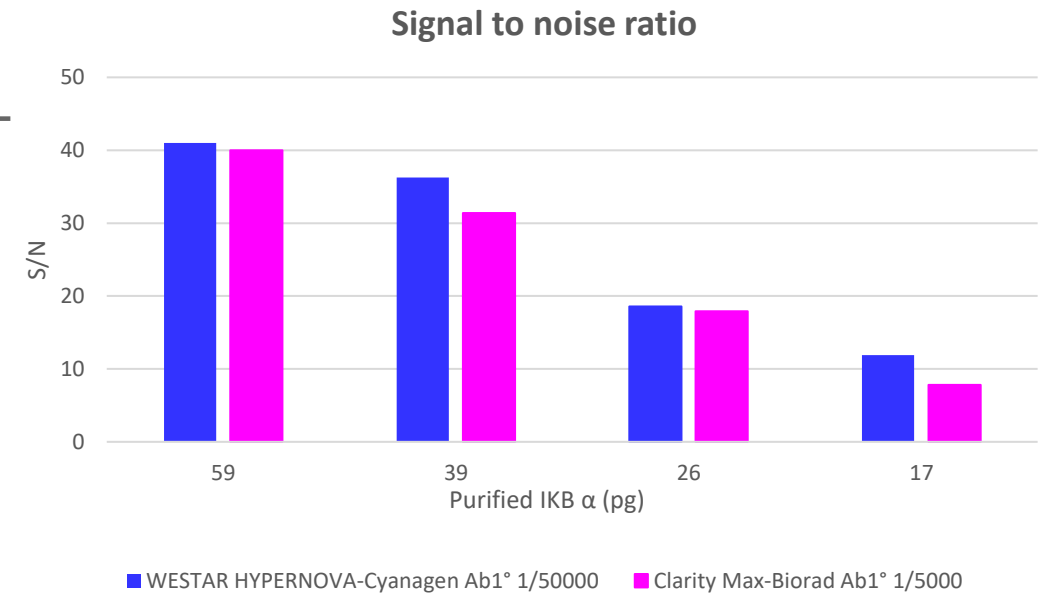


Primary antibody: 1/5000



Primary antibody: 1/50000

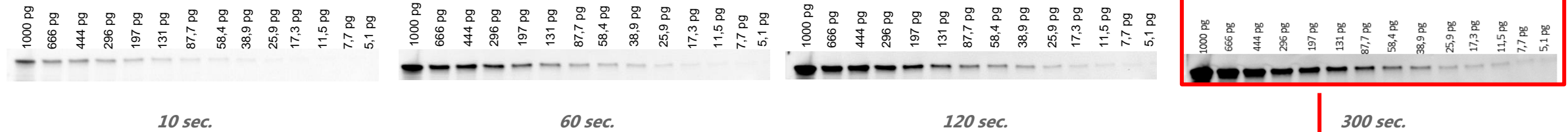
Clarity Max™-BioRad



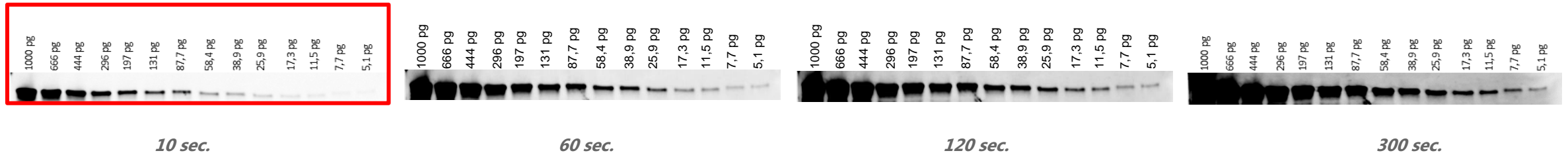
Western blotting detection of purified IKB α
 Purified IKB α 1,5 -fold dilutions from 58,4 to 17,3 pg
 Ab 1° Rabbit anti IKB α 1:5000;1:50000
 Ab 2° Goat anti rabbit 1:500000
 Exposure time: 60 seconds
 Imager: LAS4000 (GEHC)

10-fold diluted primary antibody with the same results

Clarity Max™ - BioRad



WESTAR HYPERNOVA - Cyanagen



Western blotting detection of purified IKB α
 Purified IKB α 1,5 -fold dilutions from 1000 to 5,1 pg
 Ab 1° Rabbit anti IKB α 1:1000
 Ab 2° Goat anti rabbit 1:500000
 Imager: LAS4000 (GEHC)

Same signal intensity of the top level ECL substrates in few second exposure

ELISTAR HYPERNOVA for ELISA/CLIA

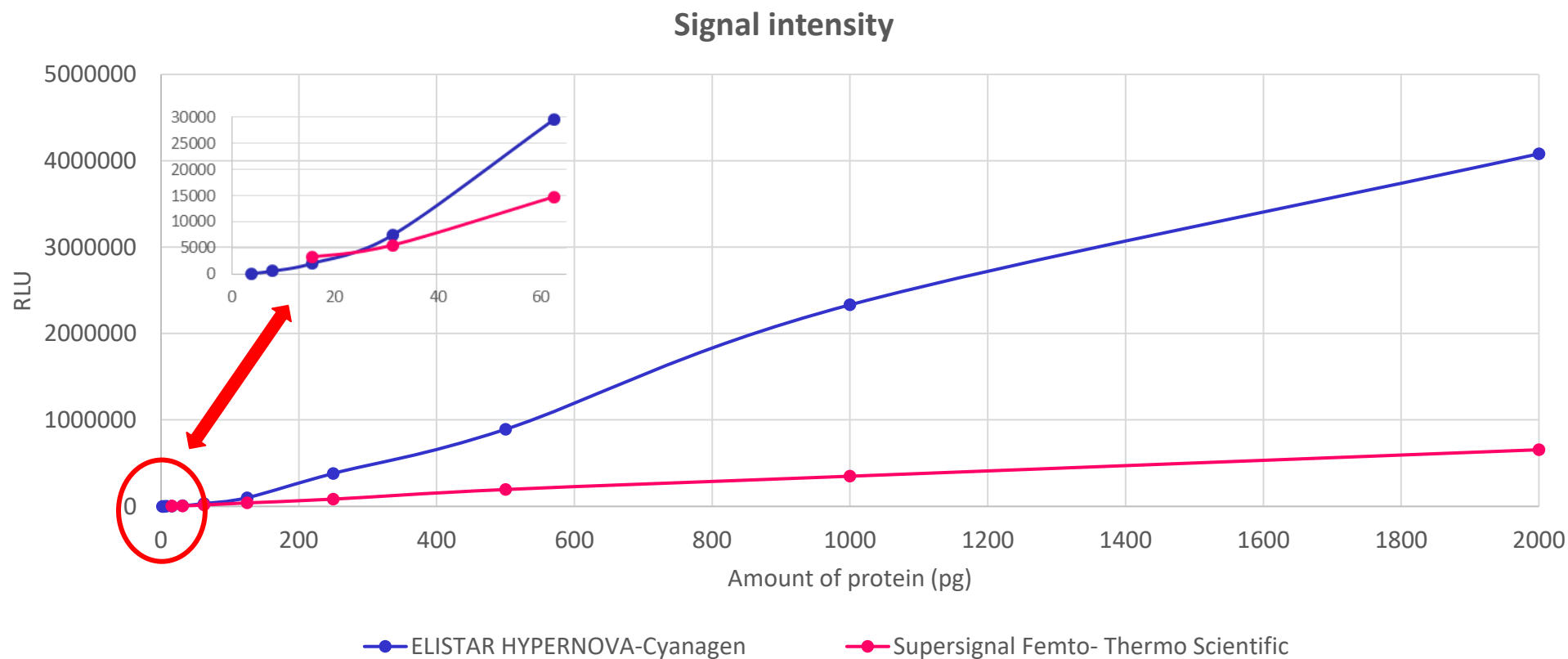


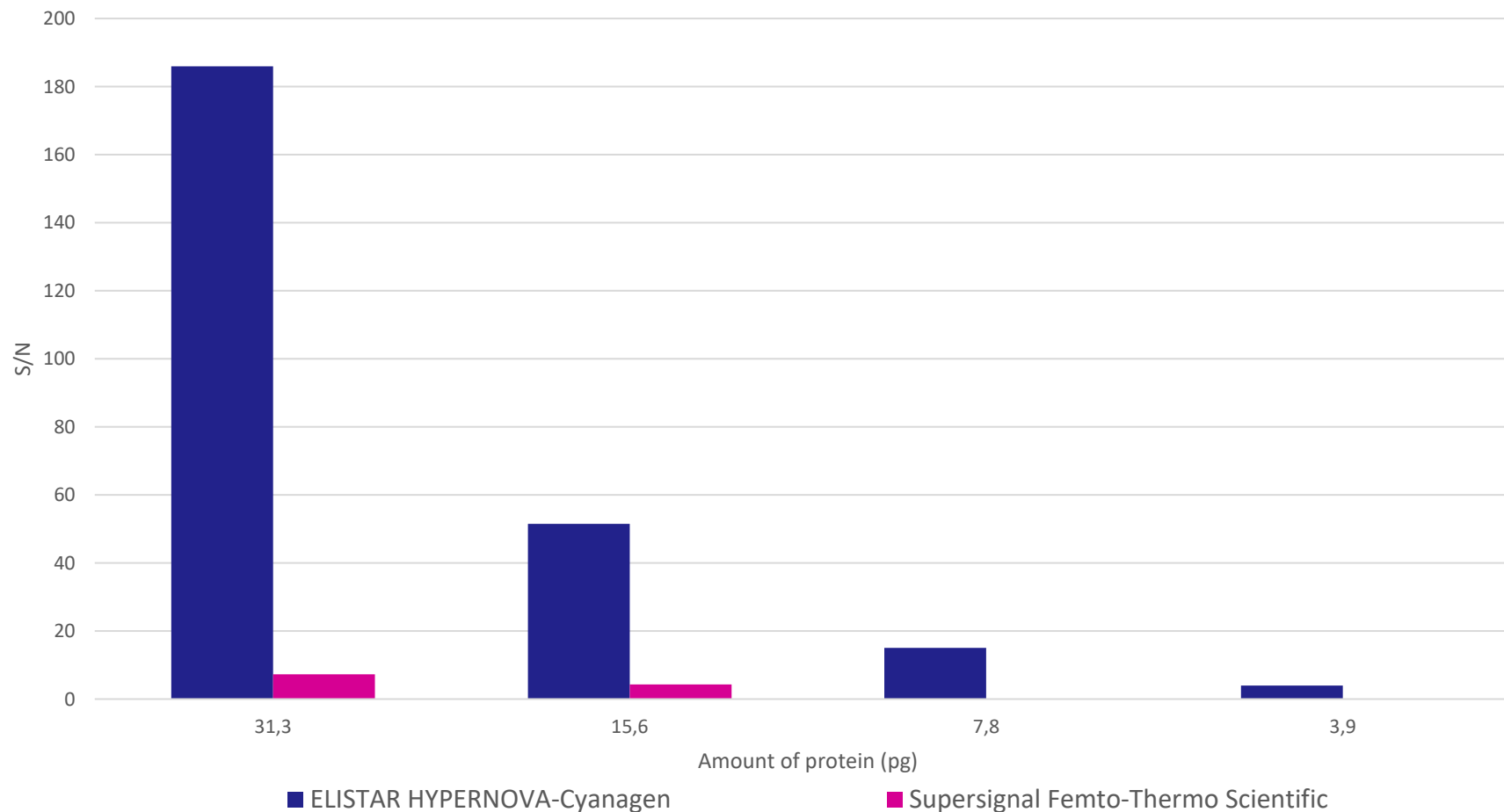
EXTREME SENSITIVE ECL SUBSTRATE

- Up to ten-fold improvement in detection limit
 - Up to ten-fold improvement in analytical sensitivity
- compared to SuperSignal™ Femto- Thermo Scientific

calculated with the signal-to-noise approach ($S/N > 3$)

calculated by adding 2σ to the mean of 12 replicates analysis of the blank

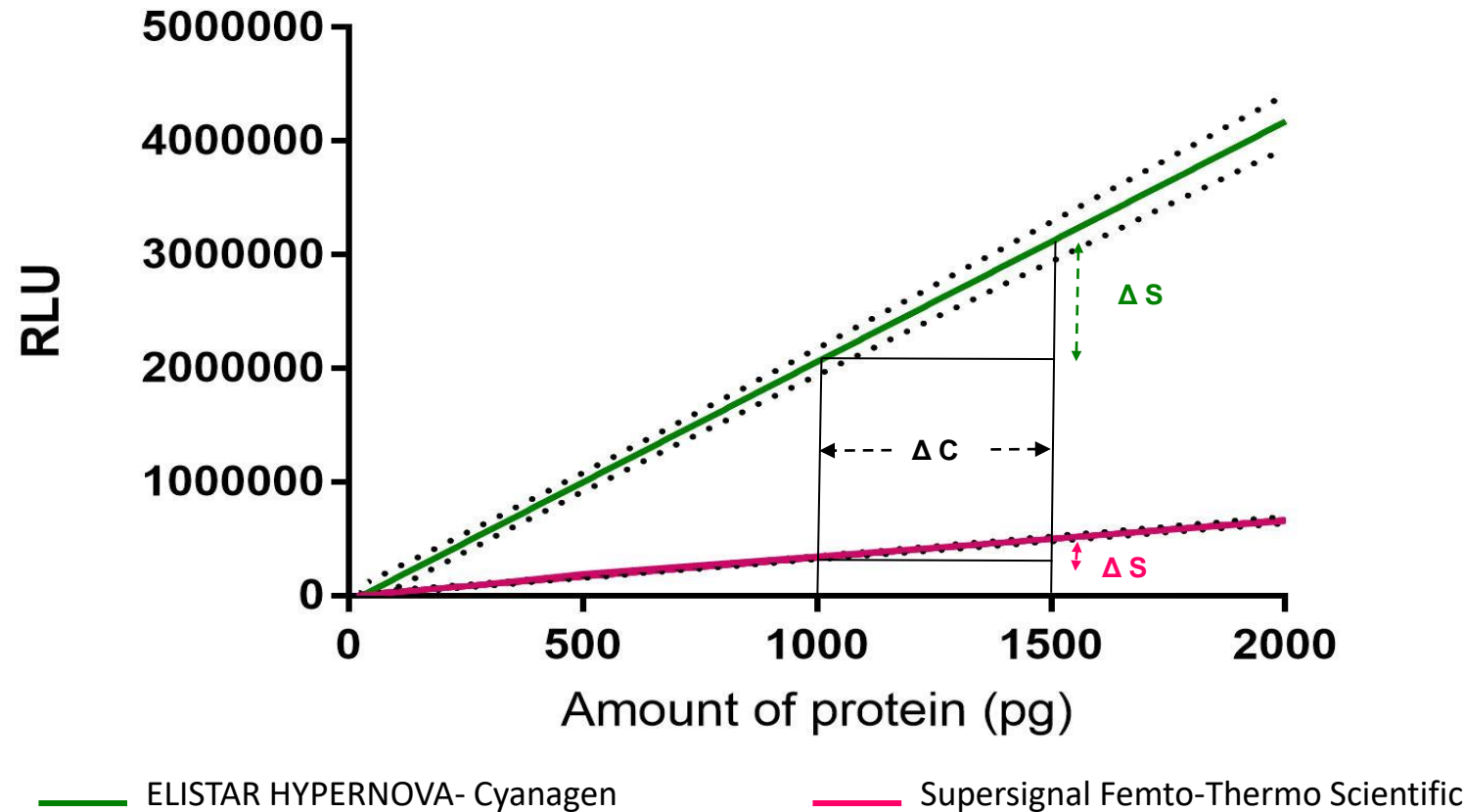




Higher signal-to-noise ratio enables

CLEARER INTERPRETATION OF LOW ANALYTE CONCENTRATION

Extreme sensitivity* and improved predictive value

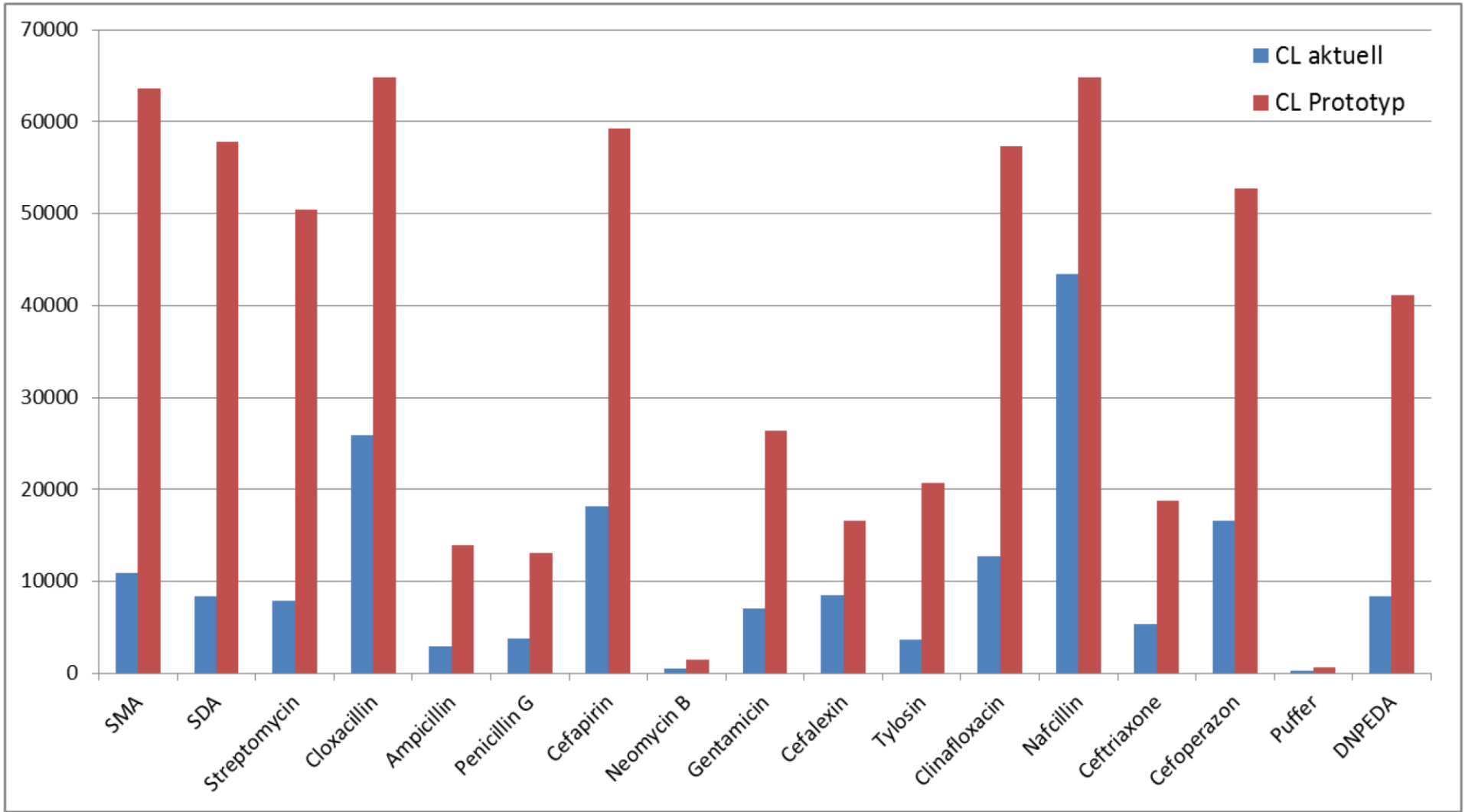


Increased signal variation for the same variation in amount of protein

*Sensitivity is intended as the change in signal per unit of concentration i.e. the slope of the dose/response curve

Monitoring of Antibiotic Residues in Milk with the Biosensor System MCR 3

Signal intensities comparison between ELISTAR HYPERNOVA and current top level (ELISTAR SUPERNOVA – Cyanagen)



CL aktuell=ELISTAR SUPERNOVA

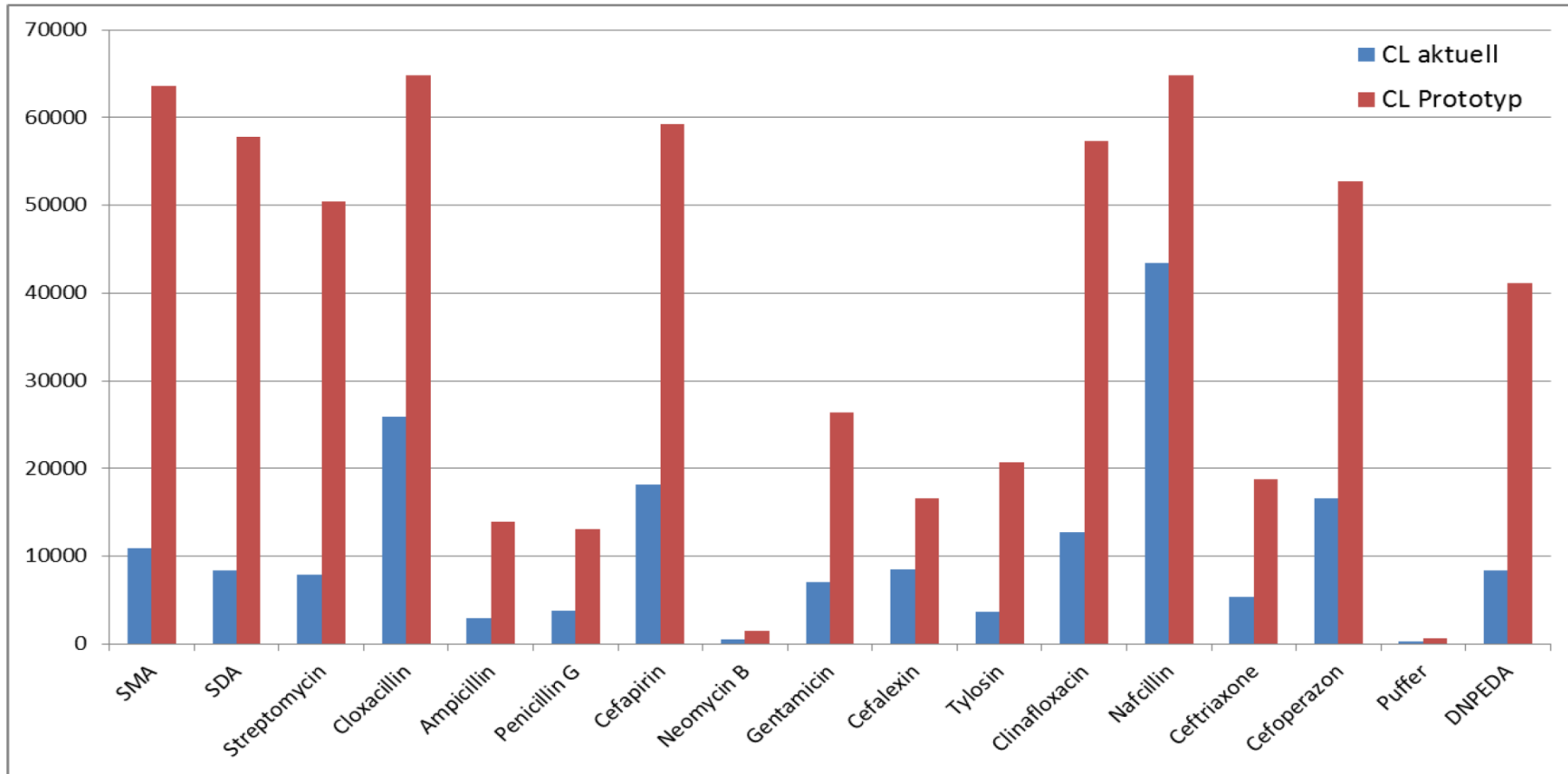
CL Prototyp=ELISTAR HYPERNOVA

ELISTAR SUPERNOVA performance equals SuperSignal™ Femto-Thermo Scientific ones

Data kindly provided by MPR - Milchprüfung Bayern e.V.

Monitoring of Antibiotic Residues in Milk with the Biosensor System MCR 3

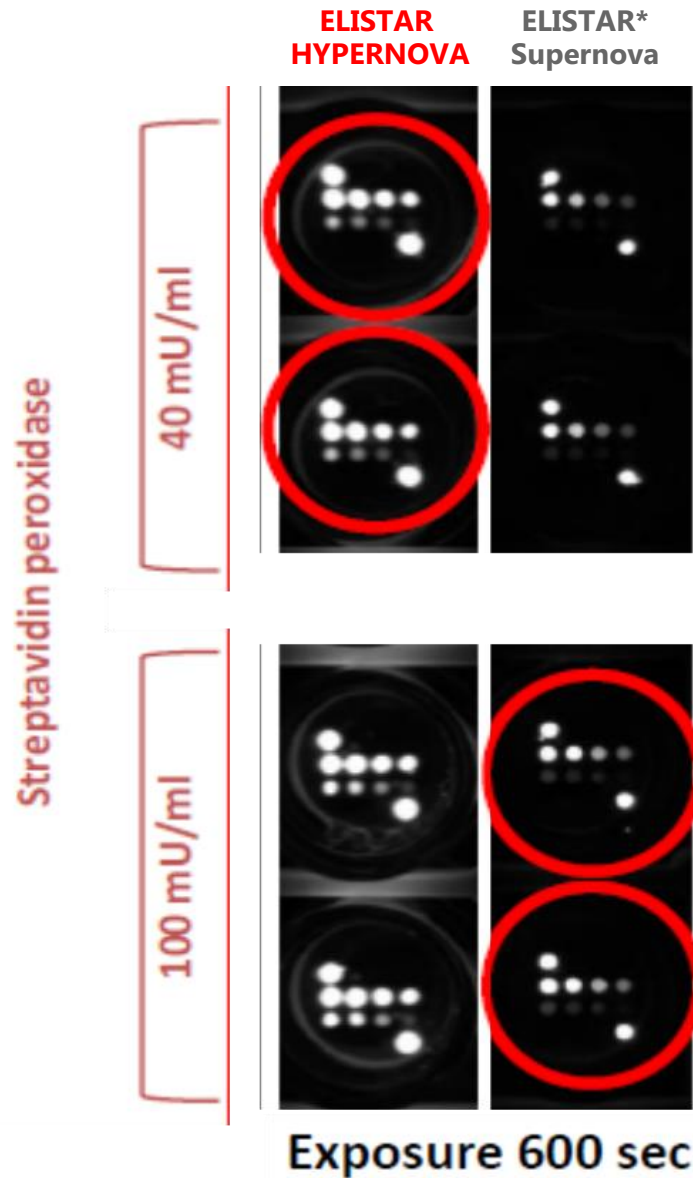
Signal intensities comparison between ELISTAR HYPERNOVA and current top level (ELISTAR SUPERNOVA – Cyanagen)



CL aktuell=ELISTAR SUPERNOVA
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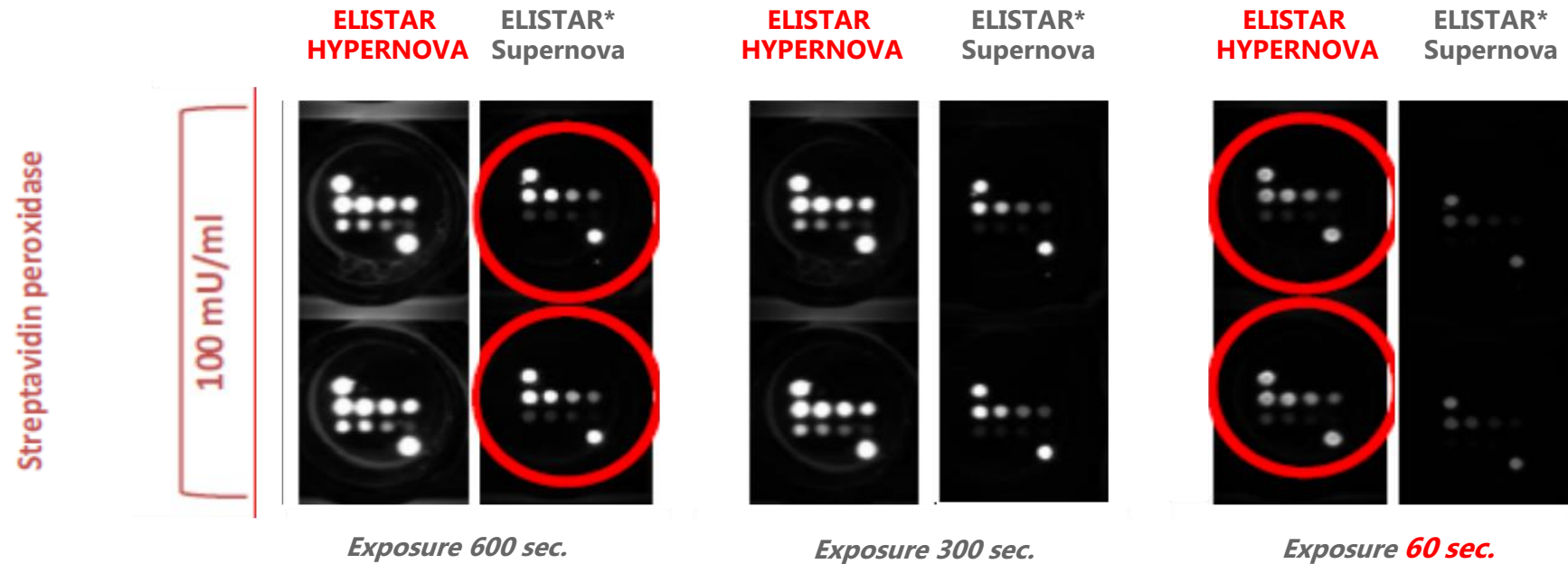


ELISTAR HYPERNOVA allows better results even with more diluted primary antibodies

*ELISTAR SUPERNOVA performance equals SuperSignal™ Femto- Thermo Scientific ones

Data kindly provided by **Seramun Diagnostica GmbH**

Imager: Q-View Imager Pro with Software Q-view (Quansys Bioscience)



ELISTAR HYPERNOVA allows accurate results with a shorter exposure time

*ELISTAR SUPERNOVA performance equals SuperSignal™ Femto- Thermo Scientific ones

*Data kindly provided by **Seramun Diagnostica GmbH***

Imager: Q-View Imager Pro with Software Q-view (Quansys Bioscience)

CYANAGEN

cyanagen.com

CYANAGEN

Reagents for Molecular Biology

2023

