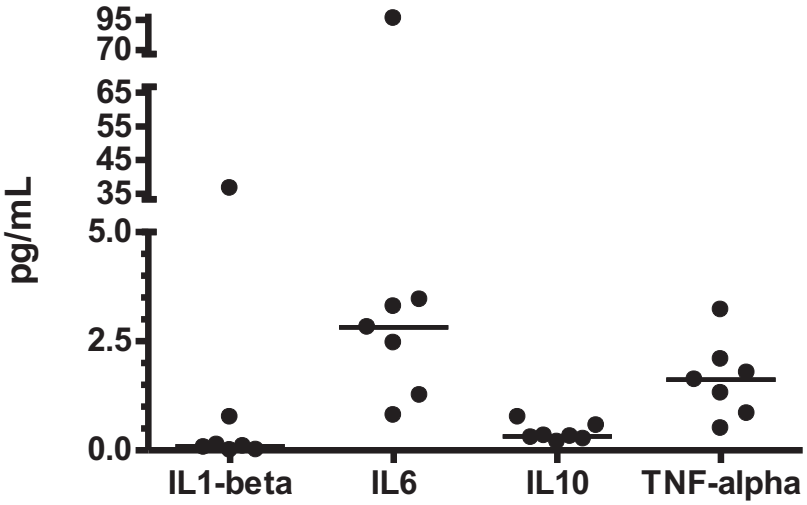
Ultra-Sensitive Biomarker Quantification Assay Services

powered by Simoa™ technology

- Single Molecule Array (Simoa™) technology enables **femtogram/ml** level measurement of biomarkers in **serum, plasma**, or other matrices
- Selected **multiplex** panels available
- Provides robust and reproducible results with **< 10% CVs** and the capacity for high precision 'digital' or 'traditional' analog measurement
- Ultra-sensitive services covering over 25 analytes including Aβ-40, Aβ-42, GM-CSF, IL-1β, IL-6, IL-8, IL-17A, IL-23, TNF-α, TRAIL and Troponin-I

Figure 1. Normal human serum endogenous levels of several pro- and anti-inflammatory cytokines



Powered by the Quanterix Simoa™ Technology, Lexington MA, USA

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Figure 2. Human Cytokine 3-Plex A (IL-10, IL-6, TNF-α) Immunoassay Standard Curves
AEB: Average Enzyme per Bead

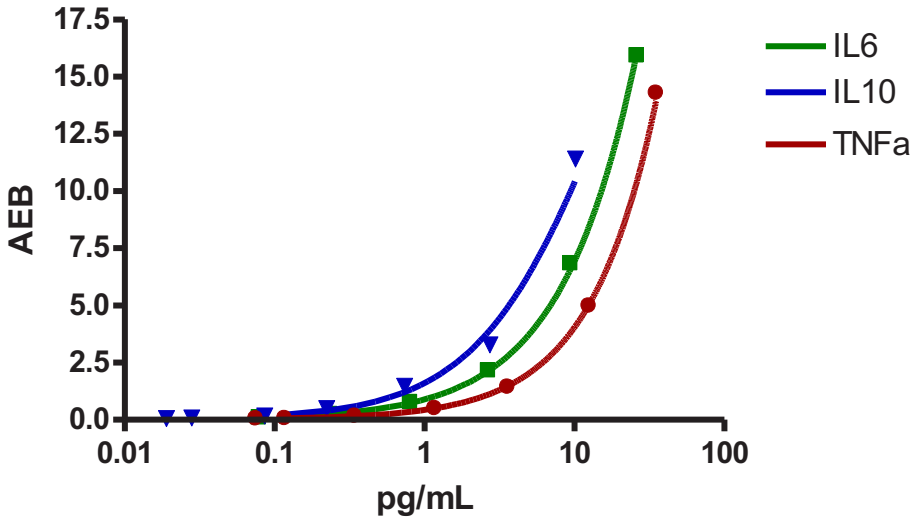


Figure 3. IL-1beta Immunoassay Standard Curve

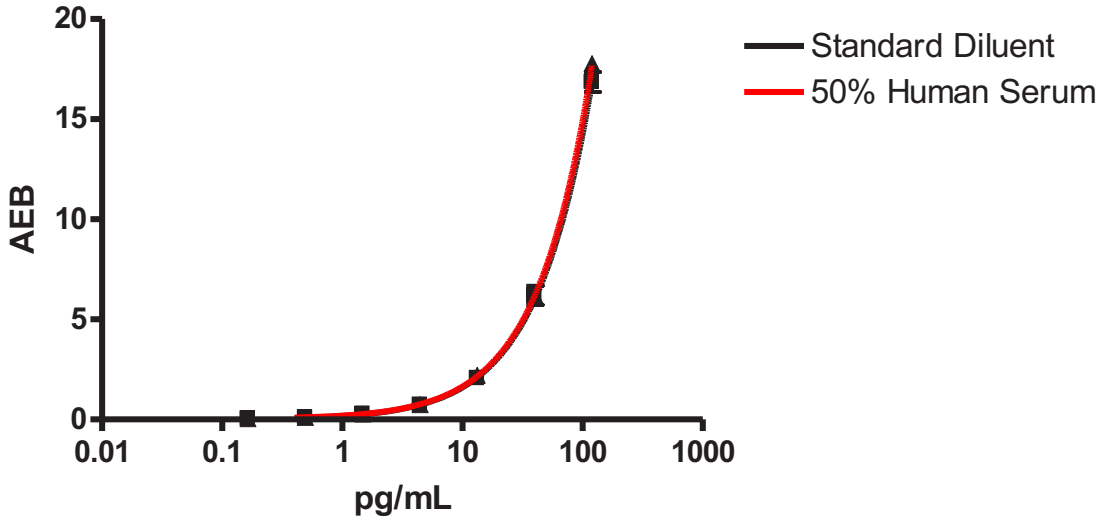
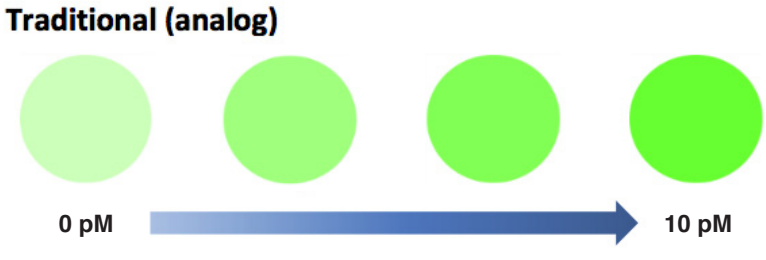
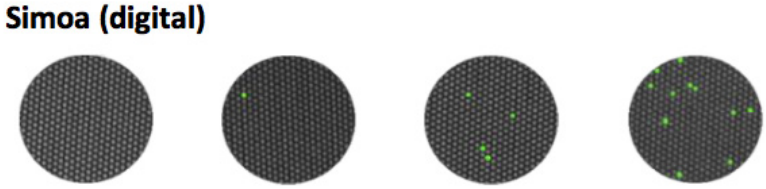


Figure 4. Traditional (analog) detection versus high precision Simoa (digital) measurement



Analog measurements give increasing intensity as the concentration increases.



In contrast, digital measurements are independent of intensity and simply rely on a signal/no signal readout.