

Simoa HD-X® SERVICE

We provide precise biomarker analysis using the revolutionary digital Simoa HD-X® technology



About the Simoa HD-X® Technology

The Single Molecular Array (Simoa) technique developed by Quanterix™ is a highly sensitive enzyme-linked immunosorbent assay for the detection of biomarkers associated with disease. Simoa has the capability of analysing biofluids using very small sample volumes and provides 1000x greater (10-16M) sensitivity than traditional ELISAs.

This novel digital ELISA is performed using single paramagnetic bead capture. This involves labelling an analyte of interest with a conjugated enzyme, which forms an immuno-sandwich complex by binding a biotinylated detection antibody. Simoa supports high-throughput screening, rapid analysis and in some instances can multiplex up to 6 biomarkers in a single assay.

Assays

Quanterix™ offers a wide range of more than 80 assays, specialising in neurology, oncology, immunology/inflammation, infectious diseases and cardiology, and are committed to developing new assays. Examples of available assays include: NfL, p-tau181, and cytokines; further assays can be found at www.quanterix.com/simoa-assay-kits/

Simoa can analyse serum, plasma, CSF and other biofluids.

Cost

Costs are calculated based on the assay kit and number of samples to be analysed. Assay kits are independently priced, therefore in order to provide a quote, please contact us at simoa@wehi.edu.au and we will advise you on the best approach from sample collection and storage through to sample analysis.

Contact

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The Simoa process

