SomaScan® V4.1



How to access

The SomaScan V4.1 Assay is performed on the Tecan Fluent that is located at the Center for Human Immunology, Inflammation, and Autoimmunity in Building 10 on the Bethesda campus.

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The Center for Human Immunology, Inflammation, and Autoimmunity is an affliate of the National Institute of Allergy and Infectious Diseases Research Technologies Branch. CHI staff collaborate with researchers to apply advanced technologies to achieve an integrated and predictive understanding of human immunity, immune-microbiome behavior and their function in health and disease.

Proteomic Biomarker Assay

The SomaScan Assay profiles more than 7,000 proteins in only 55 µL of sample. The assay runs on Tecan's Fluent liquid handling platform and utilizes a unique set of capture reagents called Slow Off-rate Modified Aptamers (SOMAmers) to measure the relative abundance of proteins in a multitude of biological matrices including human serum, plasma, cerebrospinal fluid, urine as well as many others. Through a unique reagent binning design, the assay is capable of spanning 10 logs of dynamic range. The platform is high throughput and is capable of running 81 subject samples at a time. In addition, it is highly reproducible, and the median %CV in replicate samples is typically <5%. It has proved widely successful when screening for biomarker signatures in a variety of biomedical applications, such as those predicting patient outcomes or characterizing responses to interventions and therapies. This is typically achieved when utilizing longitudinal samples from individuals, and with study designs including discovery and validation cohorts.

Policies

This technology is available to NIH researchers through the Center for Human Immunology, Inflammation and Autoimmunity (CHI) Fee For Service Program. The CHI will work with investigators to understand their scientific goals and help make the best use of the technology. Once these goals have been agreed upon, a cost estimate will be generated and a funding mechanism will be established. The investigator will provide funding to the CHI which will then procure the reagents needed to execute the experiment. Cost information listed below assumes that the investigator is providing a full plate of samples (n=81), samples are run on a per-plate basis. Investigators from ICs that contribute standing funding to the CHI - \$40,500 per plate; Investigators from ICs that do not contribute standing funding to the CHI - \$44,550 per plate.

Product Information

For the most up to date list of analytes and assay information, please contact Brian Sellers.





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