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### **Quanterix Simoa® Bead-Based Assay Kits and Reagents Sole Source Specifications**

The Quanterix bead-based assay kits, reagents and consumables featuring Simoa® technology are solely manufactured, distributed and supported by Quanterix Corporation. The Simoa assay kits, reagents and consumables can only be used with Quanterix biomarker detection systems including the HD-1 Analyzer®, HD-X Analyzer™ and SR-X® platforms.

The Simoa instruments, assay kits, reagents and consumables are generally covered by patents as listed below. There are no licensed systems or products offered by third party providers that can use any components or methods of the Quanterix Simoa technology platform including assay kits, reagents and consumables.

- USPTO patent # 8,236,574B2 Ultra-sensitive detection of molecules or particles using beads or other capture objects
- USPTO patent# 8,222,047B2 Ultra-sensitive detection of molecules on single molecule arrays
- USPTO patent# 8,415,171B2 Methods and systems for extending dynamic range in assays for the detection of molecules or particles

#### **Simoa assay kits and reagents general features**

- Quanterix is the exclusive manufacturer and distributor of ultra-sensitive digital immunoassay kits and reagents enabling femtogram per ml (fg/ml) sensitivity in both singleplex and multiplex assay formats
- The Simoa bead-based assay technology measures individual single molecules immobilized on the surface of 2.7 micron magnetic particles. Each magnetic particle is encapsulated in a 15 femtoliter sized well within an array of greater than 200,000 wells. Analytes of interest are labeled with an enzyme and the product of the enzyme is detected by imaging the Simoa disc array
- Assay kits and reagents are available to support multiplex measurements of up to 4 unique analytes per reaction
- The Simoa reagents can be used to develop assays capable of measuring concentrations of soluble protein biomarkers in multiple sample matrices including serum, plasma, CSF, urine, saliva and exhaled breath condensate
- Quanterix offers a broad menu of ultra-sensitive Simoa assays with detection limits up to 1,000X lower than plate-based ELISA methods and CV less than 10%.
- Simoa homebrew assay development kits and reagents allow users to create custom assays

Sincerely,

Mark Roskey  
Quanterix Chief Science and Collaboration Officer