

BIOMARKER SCIENCES

Dedicated biomarker laboratory to support large molecule assessments



- Globally recognized key opinion leaders and white paper authors
- Context-of-use driven strategies and validations
- Establishment of endogenous QCs and evaluation of parallelism

- Pre-analytical sample considerations
- Collaborations with platform developers
- Multiplexing expertise
- *De novo* assay development
- Commercial kit optimization

Platforms

- Mesoscale Discovery Sector S 600 Imager
- ProteinSimple ELLA
- Spectramax 384 – UV/VIS
- Spectramax – L Luminescence
- Perkin Elmer Envision – Fluorescence
- CytoFLEX S Flow Cytometer
- Hamilton Starlet

De Novo Assay Strategies

- Target engagement
- Mechanistic
- Pharmacodynamic
- Disease specific
- *Ex vivo* stimulation

Off-the-Shelf Assays

Assays designated as off-the-shelf are supported by a comprehensive analytical performance data package that allows sample analysis to begin within 3 days from project initiation.

ProteinSimple ELLA

- Neurofilament Light

MSD

- V-plex Plus Proinflammatory Panel 1 (IL10, IL-12p70, IL-13, IL-1 β , IL-2, IL-4, IL-6, IL-8, TNF α)
- V-plex Plus Chemokine Panel 1 (MCP-1, MCP-4, Eotaxin, IP-10, MDC, Eotaxin-3, TARC, MIP-1 α , MIP-1 β , IL-8)



BIOMARKER EXPERIENCE

- anti-KLH IgG
- anti-KLH IgM
- C-peptide
- C-kit
- CCL-24/Eotaxin-2
- CCL27/CTACK
- CD73
- CSFR1
- CXCL13
- Eotaxin*
- Eotaxin-3/CCL26*
- GFAP – ultrasensitive*
- GM-CSF/CSF2
- Glucagon
- Glucokinase
- Insulin
- IFN- γ *
- IGF1
- IL-10/CSIF*
- IL-12/IL-23p40
- IL-12p70*
- IL-13*
- IL-15
- IL-16/LCF
- IL-17a
- IL-1 α
- IL-1 β /leukocytic pyrogen*
- IL-2/TCGF*
- IL-2Ra/CD25
- IL-4*
- IL-5
- IL-6*
- IL-7
- IL-8 (HA)
- IL-8*
- IL-22
- IP-10*
- ITAC
- Kallikrein (multiple)
- MCP-1*
- MCP-4/CCL13*
- M-CSF/CSF1
- MDC/CCL22*
- MIP-1 α *
- MIP-1 β *
- Neurogranin
- NF-H
- NF-L ultrasensitive
- Periostin
- Osteopontin
- sCD40
- sCD40-Ligand
- sCD73/5NT
- SCF
- NF-L Ultrasensitive*
- Placental Growth Factor (PIGF)/PGF
- PARC
- TARC/CCL17*
- TNF-b
- TNF- α *
- Transthyretin (TTR)
- VEGF
- TREM2
- VEGF
- YKL40

Multiplex MSD Panels

- V-Plex Chemokine Panel 1*
- V-Plex Pro-Inflammatory Panel 1*
- V-Plex Neuroinflammation Panel 1*
- V-Plex Cytokine Panel 1
- V-Plex Th17 Panel
- V-Plex A β Peptide Panel 1
- V-Plex Angiogenesis Panel
- V-Plex Vascular Injury Panel
- V-Plex NHP Cytokine Panel
- S-plex Ultrasensitive assays and panels

Multiplex and Multi-Analyte ELLA Panels

*denotes available off-the-shelf

Matrices

- Serum, plasma
- Whole blood
- CSF
- Urine
- Saliva
- Sputum
- Bronchioalveolar lavage fluid
- Nasal aspirate
- Nasopharyngeal aspirate
- Tears
- Synovial fluid
- Vitreous humor
- Aqueous humor
- Semen
- Blister fluid
- Tissue lysates

Therapeutic Areas

- Allergy
- Anemia
- Bone metabolism
- Cardiovascular
- Diabetes
- Growth
- Inflammation
- Immunology
- Metabolic
- Endocrinology
- Apoptosis
- Neuroscience
- Oncology
- COPD