



Meso Scale Discovery (MSD) V-PLEX®

Rules-Based Medicine, an IQVIA business, offers testing on the Meso Scale Discovery (MSD) platform, designed for high-performance biomarker detection. RBM performs the MSD V-PLEX® multiplexed assays, which are designed for robust and reproducible biomarker quantification across multiple analytes in a single well.

MSD uses electrochemiluminescence (ECL) technology, offering high sensitivity and a wide dynamic range.

Key features

Multiplexing efficiency

V-PLEX assays use MSD's multi-spot plates, allowing simultaneous measurement of up to 10 analytes per well.

Preconfigured panels

Panels are grouped by biological relevance with validated performance specifications.

Reproducibility

V-PLEX is ideal for clinical-grade data generation and high throughput for large-scale studies. Quality parameters include assessing assay sensitivity, precision, specificity, recovery, linearity and repeatability across sample types.

In addition to standard specimen types, V-PLEX panels can also be tested using our proprietary TruCulture® tubes.

Available V-PLEX panels for human testing include:

- Chemokine Panel 1 (Gen B)
- Cytokine Panel 1
- Proinflammatory Panel 1

V-PLEX assays complement RBM's other immunoassay platforms. Customers can combine multiplex panels with ultrasensitive single-plex assays or broad biomarker discovery. RBM delivers solutions from early biomarker discovery to late-stage trials.

Together, our assays empower researchers to explore complex biological questions with precision and confidence.

Available V-PLEX panels and performance characteristics*

*parameters generated by MSD

Analyte	LLOD	LLOQ	ULOQ	Dynamic Range	Unit
Chemokine Panel 1 – Gen B kit					
Eotaxin	0.20	2.14	910	0.20 – 910	pg/mL
Eotaxin-3	1.44	11.1	11,100	1.44 – 11,100	pg/mL
IP-10	0.12	1.29	1,240	0.12 – 1,240	pg/mL
MCP-1	0.16	1.45	247	0.16 – 247	pg/mL
MCP-4	0.05	0.518	234	0.05 – 0.518	pg/mL
MDC	1.00	6.43	2,930	1.00 – 2,930	pg/mL
MIP-1 α	0.05	0.357	403	0.05 – 403	pg/mL
MIP-1 β	0.09	1.20	390	0.09 – 390	pg/mL
TARC	0.11	2.14	481	0.11 – 481	pg/mL
Cytokine Panel 1					
GM-CSF	0.16	0.842	750	0.16 – 750	pg/mL
IL-1 α	0.09	2.85	278	0.09 – 278	pg/mL
IL-5	0.14	4.41	562	0.14 – 562	pg/mL
IL-7	0.12	0.851	563	0.12 – 563	pg/mL
IL-12/IL-23p40	0.33	1.32	2,250	0.33 – 2,250	pg/mL
IL-15	0.15	0.774	525	0.15 – 525	pg/mL
IL-16	2.83	19.1	1,870	2.83 – 1,870	pg/mL
IL-17A	0.31	3.19	3,650	0.31 – 3,650	pg/mL
TNF- β	0.08	0.465	458	0.08 – 458	pg/mL
VEGF-A	1.12	7.7	562	1.12 – 562	pg/mL
Proinflammatory Panel 1					
IFN- γ	0.16	0.842	750	0.16 – 750	pg/mL
IL-1 β	0.09	2.85	278	0.09 – 278	pg/mL
IL-2	0.14	4.41	562	0.14 – 562	pg/mL
IL-4	0.12	0.851	563	0.12 – 563	pg/mL
IL-6	0.33	1.32	2,250	0.33 – 2,250	pg/mL
IL-8	0.15	0.774	525	0.15 – 525	pg/mL
IL-10	2.83	19.1	1,870	2.83 – 1,870	pg/mL
IL-12p70	0.31	3.19	3,650	0.31 – 3,650	pg/mL
IL-13	0.08	0.465	458	0.08 – 458	pg/mL
TNF- α	1.12	7.7	562	1.12 – 562	pg/mL

Ask your business development representative for additional MSD testing panels.

Contact us

Email: rbm_clientservices@iqvia.com

Website: rbm.iqvia.com

Panel	Volume required
Chemokine 1 (Gen B)	100 μ L serum or plasma
Cytokine 1	125 μ L serum or plasma
Proinflammatory 1	125 μ L serum or plasma

Ask client services about volume requirements for other sample types.