

Q-PLEX™ HUMAN CYTOKINE RELEASE SYNDROME (16-PLEX)



The Q-Plex Human Cytokine Release Syndrome (16-Plex) is a fully quantitative chemiluminescent assay enabling concurrent measurement of specific biomarkers produced as a result of immunotherapy treatments or infection.

Cytokine Release Syndrome (CRS) is acute systemic inflammation associated with treatments from therapeutic antibodies, CAR-T cell therapy, and even haploidentical marrow transplantations. During CRS, a large number of cytokines are rapidly released into the bloodstream from immune cells affected by the immunotherapy. Symptoms may range from headache and fever to organ damage or even death. The Q-Plex Human Cytokine Release Syndrome (16-Plex) kit is a quantitative ELISA-based chemiluminescent assay designed for the concurrent measurement of 16 distinct analytes in the same well from only 25 μ L of sample. In under five hours, up to 80 samples can be tested on the same microplate.

The Q-Plex Human Cytokine Release Syndrome (16-plex) array provides researchers an easy-to-use and cost-effective means of generating a cytokine profile for each sample. Q-Plex™ plates are built by adsorbing 16 distinct capture antibodies in a defined array to the bottom of each well. Our high-quality reagents help ensure the accuracy of your results. Each kit is manufactured in our ISO13485 registered facility and contains a 96-well plate and all other reagents necessary to perform the assay. The individual wells of the plate are precisely and reproducibly arrayed with each of the 16 biomarkers for accurate results.



Representative data demonstrating typical sample results and reproducibility (samples are run in duplicates in each row)

Example Performance and Validation Data

Analyte	Assay Type	Calibrator Range	Upper Limit of Quantification (ULOQ)	Lower Limit of Quantification (LLOQ)	Limit of Detection	Precision* (Inter-assay)	Precision* (Intra-assay)	Average* Linearity
GMCSF	Sandwich	6,000 - 8.23 (pg/mL)	4,200 (pg/mL)	10.7 (pg/mL)	4.12 (pg/mL)	11%	7%	95%
IFN α	Sandwich	400 - 0.55 (pg/mL)	280 (pg/mL)	0.72 (pg/mL)	0.27 (pg/mL)	9%	5%	100%
IFN γ	Sandwich	99 - 0.14 (pg/mL)	69.3 (pg/mL)	0.18 (pg/mL)	0.068 (pg/mL)	10%	5%	99%
IL-1 β	Sandwich	4,075 - 5.59 (pg/mL)	2,852 (pg/mL)	7.27 (pg/mL)	2.79 (pg/mL)	11%	4%	103%
IL-1RA	Sandwich	7,000 - 9.6 (pg/mL)	4,900 (pg/mL)	12.48 (pg/mL)	4.8 (pg/mL)	11%	7%	102%
IL-2	Sandwich	64 - 0.088 (pg/mL)	44.8 (pg/mL)	0.11 (pg/mL)	0.044 (pg/mL)	8%	6%	101%
IL-2Ra	Sandwich	16,000 - 21.95 (pg/mL)	11,200 (pg/mL)	28.5 (pg/mL)	10.97 (pg/mL)	UK	9%	101%
IL-6	Sandwich	333 - 0.46 (pg/mL)	233 (pg/mL)	0.59 (pg/mL)	0.23 (pg/mL)	8%	6%	91%
IL-6R	Sandwich	1,250 - 1.71 (pg/mL)	291 (pg/mL)	2.23 (pg/mL)	0.86 (pg/mL)	UK	6.5%	111%
IL-8	Sandwich	2,000 - 2.74 (pg/mL)	1,400 (pg/mL)	3.6 (pg/mL)	1.37 (pg/mL)	12%	8%	100%
IL-10	Sandwich	2,680 - 3.68 (pg/mL)	1,876 (pg/mL)	4.78 (pg/mL)	1.84 (pg/mL)	11%	3%	99%
IL-12p70	Sandwich	3,000 - 4.12 (pg/mL)	2,100 (pg/mL)	5.35 (pg/mL)	2.06 (pg/mL)	12%	10%	99%
IL-13	Sandwich	333 - 0.46 (pg/mL)	233 (pg/mL)	0.59 (pg/mL)	0.23 (pg/mL)	11%	5%	105%
MCP-1	Sandwich	2,000 - 2.74 (pg/mL)	467 (pg/mL)	3.6 (pg/mL)	1.37 (pg/mL)	9%	4%	99%
MIP-1 α	Sandwich	2,000 - 2.74 (pg/mL)	467 (pg/mL)	3.57 (pg/mL)	1.37 (pg/mL)	UK	4%	114%
TNF α	Sandwich	661 - 0.91 (pg/mL)	462 (pg/mL)	1.18 (pg/mL)	0.45 (pg/mL)	12%	8%	101%

* Actual values may vary from kit to kit. Please see the In-Kit Certificate of Analysis included in your kit for specific values.



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