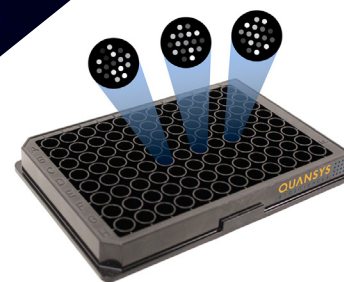
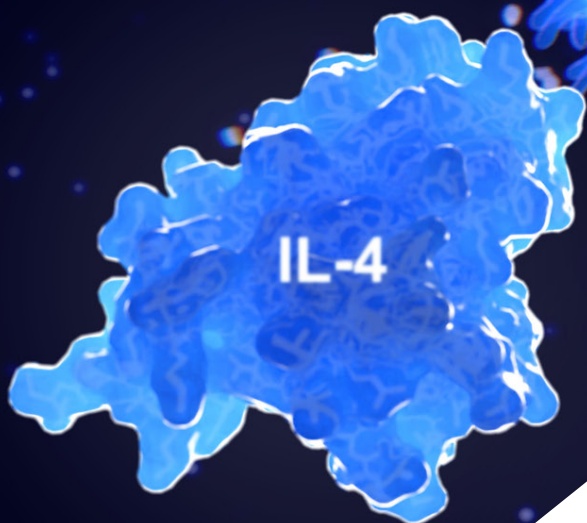


Q-PLEX™ HUMAN CYTOKINE STRIPWELLS (16-PLEX)



The Q-Plex™ Human Cytokine Stripwells (16-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of 16 biomarkers or analytes.

Background

The Q-Plex™ Human Cytokine Stripwells (16-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of 16 biomarkers or analytes: IL-1α, IL-1β, IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12p70, IL-13, IL-15, IL-17a, IL-23, IFNγ, TNFα, and TNFβ.

Each kit contains a 96-well strip well plate, featuring the relevant biomarker panel, and all the reagents required to perform testing. Q-Plex™ plates are built by absorbing sixteen distinct capture antibodies in a defined array to the bottom of each well. Using just 50 µL of sample per well, up to 80 samples can be assayed for all 16 markers in the panel within 2.5 hours. The Q-Plex™ Human Cytokine Stripwells (16-Plex) provides researchers an easy to use and cost effective means of generating a cytokine profile for each sample.

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
IFNγ	Sandwich	8,000 - 10.97 (pg/mL)	5,600 (pg/mL)	14.3 (pg/mL)	5.49 (pg/mL)	8%	4%	97%
IL-1α	Sandwich	4,000 - 5.49 (pg/mL)	2,800 (pg/mL)	7.1 (pg/mL)	2.74 (pg/mL)	6%	7%	86%
IL-1β	Sandwich	12,226 - 16.77 (pg/mL)	8,558 (pg/mL)	21.8 (pg/mL)	8.39 (pg/mL)	8%	5%	94%
IL-2	Sandwich	5,213 - 7.15 (pg/mL)	3,649 (pg/mL)	9.3 (pg/mL)	3.58 (pg/mL)	6%	4%	99%
IL-4	Sandwich	1,676 - 2.30 (pg/mL)	1,173 (pg/mL)	3.0 (pg/mL)	1.15 (pg/mL)	6%	6%	94%
IL-5	Sandwich	3,000 - 4.12 (pg/mL)	2,100 (pg/mL)	5.3 (pg/mL)	2.06 (pg/mL)	10%	7%	95%
IL-6	Sandwich	3,000 - 4.12 (pg/mL)	2,100 (pg/mL)	5.3 (pg/mL)	2.06 (pg/mL)	7%	4%	104%
IL-8	Sandwich	2,000 - 2.74 (pg/mL)	1,400 (pg/mL)	3.6 (pg/mL)	1.37 (pg/mL)	12%	7%	100%
IL-10	Sandwich	8,039 - 11.03 (pg/mL)	5,627 (pg/mL)	14.3 (pg/mL)	5.51 (pg/mL)	7%	5%	103%
IL-12p70	Sandwich	3,000 - 4.12 (pg/mL)	2,100 (pg/mL)	5.3 (pg/mL)	2.06 (pg/mL)	7%	7%	103%
IL-13	Sandwich	3,000 - 4.12 (pg/mL)	2,100 (pg/mL)	5.3 (pg/mL)	2.06 (pg/mL)	6%	7%	98%
IL-15	Sandwich	10,733 - 14.72 (pg/mL)	7,513 (pg/mL)	19.1 (pg/mL)	7.36 (pg/mL)	10%	7%	96%
IL-17A	Sandwich	16,772 - 23.01 (pg/mL)	11,740 (pg/mL)	29.9 (pg/mL)	11.50 (pg/mL)	7%	7%	95%
IL-23	Sandwich	41700 - 57.20 (pg/mL)	21,000 (pg/mL)	120 (pg/mL)	28.60 (pg/mL)	10%	5%	105%
TNFα	Sandwich	6,500 - 8.92 (pg/mL)	4,522 (pg/mL)	11.5 (pg/mL)	4.46 (pg/mL)	6%	5%	98%
TNFβ	Sandwich	4,000 - 5.49 (pg/mL)	2,800 (pg/mL)	7.1 (pg/mL)	2.74 (pg/mL)	8%	5%	96%

* 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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