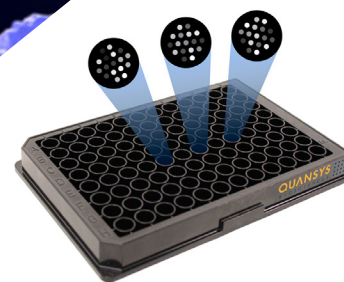
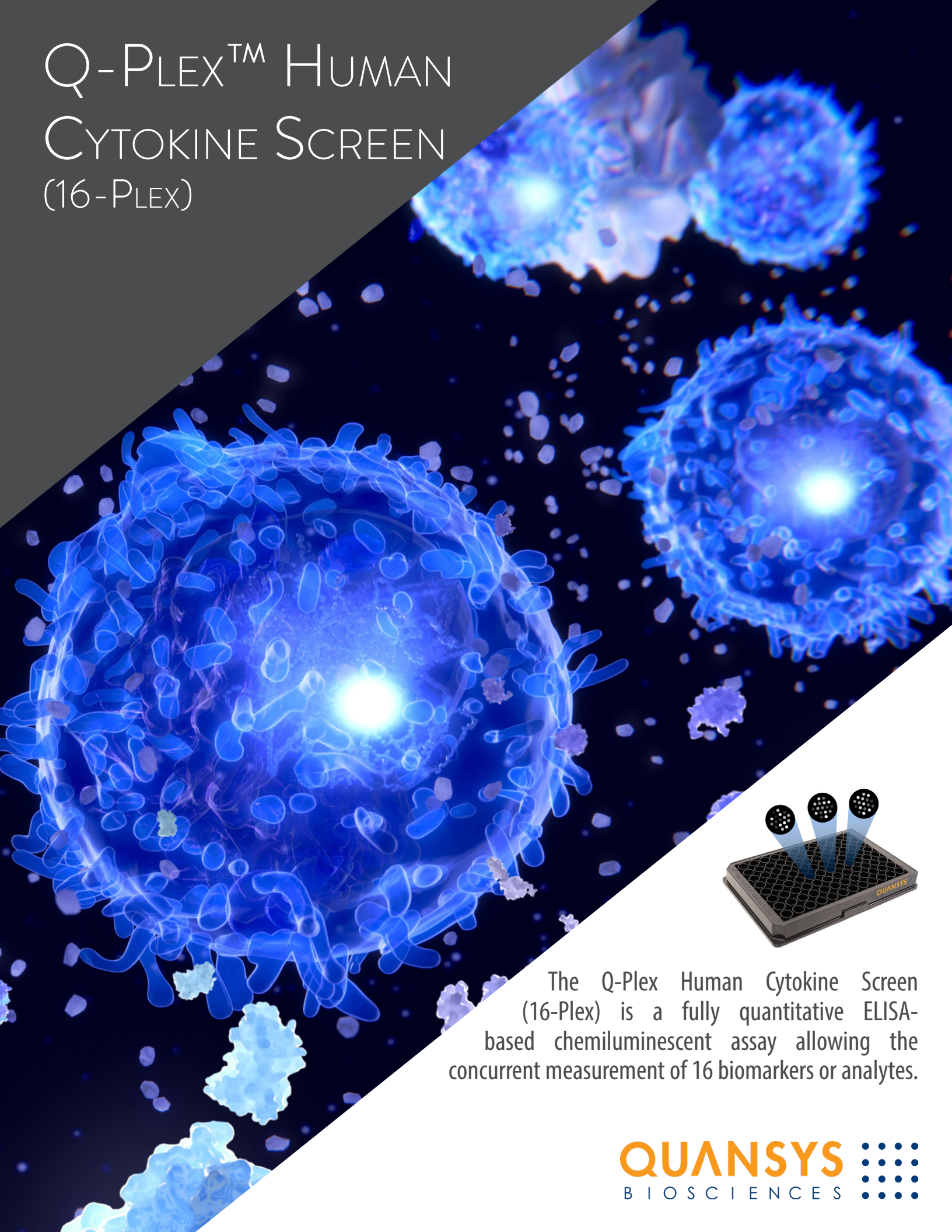


# Q-PLEX™ HUMAN CYTOKINE SCREEN (16-PLEX)



The Q-Plex Human Cytokine Screen (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 Screen (16-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of 16 biomarkers or analytes: IL-1 $\alpha$ , IL-1 $\beta$ , IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12p70, IL-13, IL-15, IL-17a, IL-23, IFN $\gamma$ , TNF $\alpha$ , and TNF $\beta$ .

Each kit contains a 96-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  $\mu$ L of sample per well, up to 80 samples can be assayed for all sixteen markers in the panel within 2.5 hours. The Q-Plex™ Human Cytokine – Screen (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
IFN $\gamma$	Sandwich	8,000 - 10.97 (pg/mL)	5,600 (pg/mL)	14.3 (pg/mL)	5.49 (pg/mL)	8%	4%	97%
IL-1 $\alpha$	Sandwich	4,000 - 5.49 (pg/mL)	2,800 (pg/mL)	7.1 (pg/mL)	2.74 (pg/mL)	6%	7%	86%
IL-1 $\beta$	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%
TNF $\alpha$	Sandwich	6,500 - 8.92 (pg/mL)	4,522 (pg/mL)	11.5 (pg/mL)	4.46 (pg/mL)	6%	5%	98%
TNF $\beta$	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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