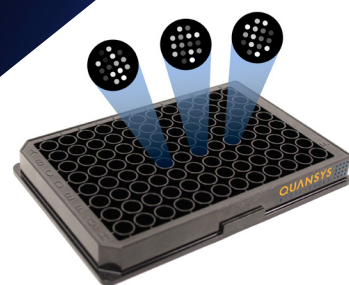
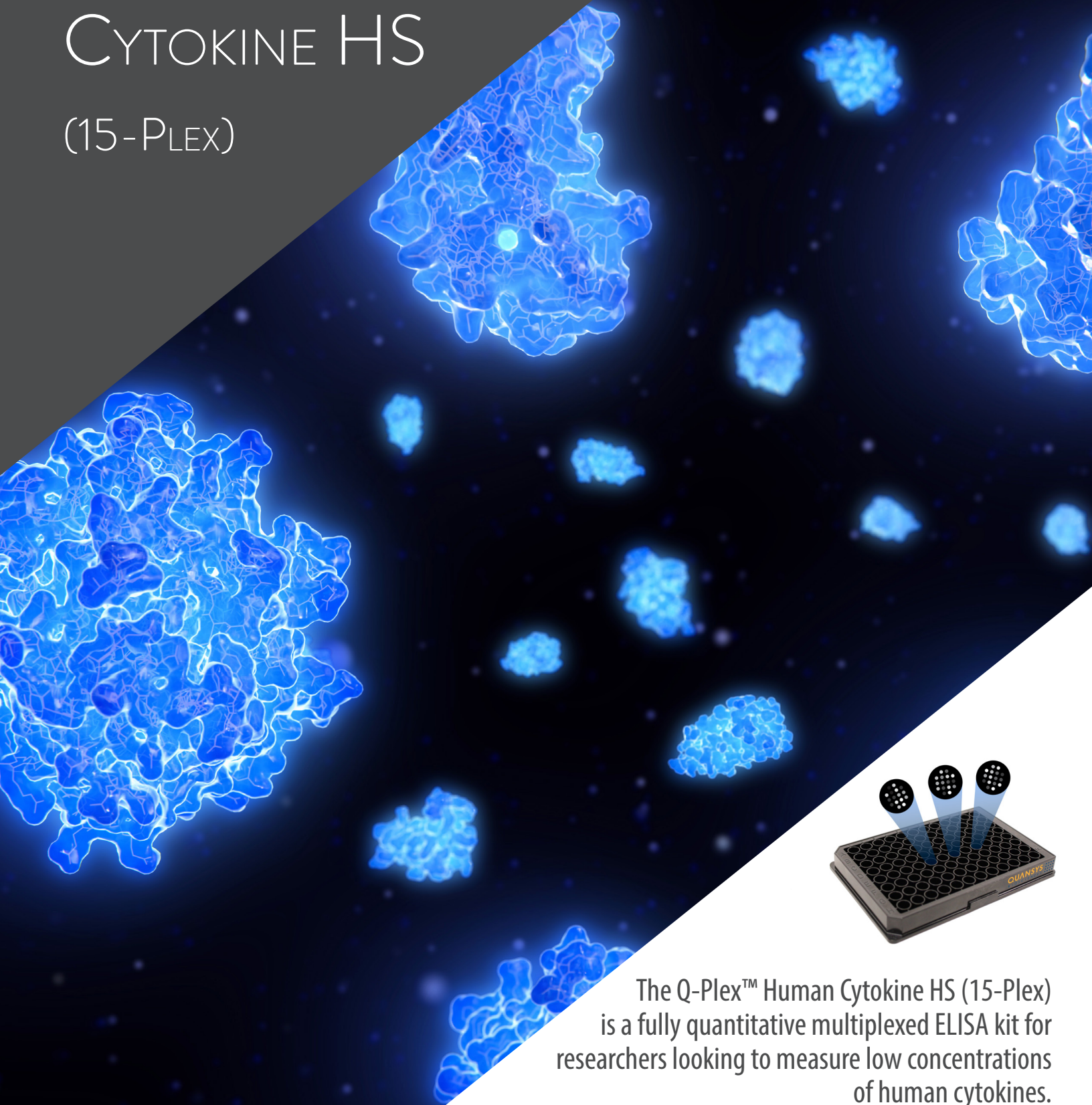


Q-PLEX™ HUMAN CYTOKINE HS

(15-PLEX)



The Q-Plex™ Human Cytokine HS (15-Plex) is a fully quantitative multiplexed ELISA kit for researchers looking to measure low concentrations of human cytokines.

Background

The Q-Plex™ Human Cytokine HS (15-Plex) is a fully quantitative multiplexed ELISA kit for researchers looking to measure low concentrations of human cytokines. These chemiluminescent assays allow for the concurrent measurement of IFN γ , IL-1 α , IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-13, IL-15, IL-17A, IL-23, TNF α , and TNF β .

The high sensitivity (HS) kits contain a 96-well plate and the optimized reagents required to perform testing. Each well of the included plate features a defined array of unique capture antibodies for each marker in the panel. Requiring only 25 μ L, Q-Plex kits provide an efficient means of generating an accurate 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 γ	Sandwich	99 – 0.14 (pg/mL)	69.3 (pg/mL)	0.18 (pg/mL)	0.068 (pg/mL)	10%	5%	99%
IL-1 α	Sandwich	1,333 – 1.83 (pg/mL)	933 (pg/mL)	2.38 (pg/mL)	0.91 (pg/mL)	9%	6%	102%
IL-1 β	Sandwich	4,075 – 5.59 (pg/mL)	2852 (pg/mL)	7.27 (pg/mL)	2.79 (pg/mL)	11%	4%	103%
IL-2	Sandwich	64 – 0.088 (pg/mL)	44.8 (pg/mL)	0.11 (pg/mL)	0.044 (pg/mL)	8%	6%	101%
IL-4	Sandwich	21 – 0.029 (pg/mL)	14.7 (pg/mL)	0.04 (pg/mL)	0.014 (pg/mL)	11%	8%	97%
IL-5	Sandwich	333 – 0.46 (pg/mL)	233 (pg/mL)	0.59 (pg/mL)	0.23 (pg/mL)	10%	8%	102%
IL-6	Sandwich	333 – 0.46 (pg/mL)	233 (pg/mL)	0.59 (pg/mL)	0.23 (pg/mL)	8%	6%	91%
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%
IL-15	Sandwich	3,578 – 4.91 (pg/mL)	2,504 (pg/mL)	6.38 (pg/mL)	2.45 (pg/mL)	8%	11%	102%
IL-17A	Sandwich	5,589 – 7.67 (pg/mL)	3912 (pg/mL)	9.97 (pg/mL)	3.83 (pg/mL)	9%	5%	104%
IL-23	Sandwich	10,000 – 13.72 (pg/mL)	6230 (pg/mL)	57.3 (pg/mL)	6.86 (pg/mL)	8%	10%	100%
TNF α	Sandwich	661 – 0.91 (pg/mL)	462 (pg/mL)	1.18 (pg/mL)	0.45 (pg/mL)	12%	8%	101%
TNF β	Sandwich	444 – 0.61 (pg/mL)	310 (pg/mL)	0.79 (pg/mL)	0.30 (pg/mL)	9%	7%	94%

*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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