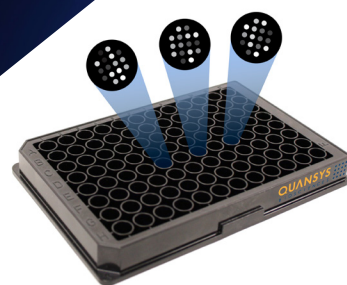


# Q-PLEX™ HUMAN CYTOKINE HS

(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 $\gamma$ , IL-1 $\alpha$ , IL-1 $\beta$ , IL-2, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-13, IL-15, IL-17A, IL-23, TNF $\alpha$ , and TNF $\beta$ .

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  $\mu$ 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 $\gamma$	Sandwich	99 – 0.14 (pg/mL)	69.3 (pg/mL)	0.18 (pg/mL)	0.068 (pg/mL)	10%	5%	99%
IL-1 $\alpha$	Sandwich	1,333 – 1.83 (pg/mL)	933 (pg/mL)	2.38 (pg/mL)	0.91 (pg/mL)	9%	6%	102%
IL-1 $\beta$	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 $\alpha$	Sandwich	661 – 0.91 (pg/mL)	462 (pg/mL)	1.18 (pg/mL)	0.45 (pg/mL)	12%	8%	101%
TNF $\beta$	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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PIHU1013.01