

Q-PLEX™ HUMAN INNATE IMMUNITY (7-PLEX)



The Q-Plex™ Human Innate Immunity (7-Plex) is a fully quantitative plate-based multiplex ELISA for the detection of cytokines associated with innate immunity.

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Background

The Q-Plex™ Human Innate Immunity (7-Plex) is a fully quantitative plate-based multiplex ELISA for the detection of cytokines associated with innate immunity.

The innate immune system includes anatomical barriers, chemical mediators such as the complement system, as well as immune cells capable of producing inflammatory cytokines. Innate immune cells are crucial to the host's defense against pathogens and for initiating immune responses.

Species Specificity	Human
Assay Type	Sandwich
Sample Type	Human Serum, EDTA/Heparin Plasma
Assay Length	2.25 hours
Volume Required Per Well	Min. 25 µL
Detection Mention	Chemiluminescent
Multiplex Format	96-well solid plate
Catalog #	111233HU

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%	7.2%	95%
IFNα	Sandwich	400 - 0.55 (pg/mL)	280 (pg/mL)	0.72 (pg/mL)	0.27 (pg/mL)	9%	5%	100%
IFNβ	Sandwich	19,000 - 26.06 (pg/mL)	13,300 (pg/mL)	33.88 (pg/mL)	13.03 (pg/mL)	11.7%	7.1%	110%
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)	13%	7%	86%
IL-1β	Sandwich	12,226 - 16.77 (pg/mL)	8,558 (pg/mL)	21.8 (pg/mL)	8.39 (pg/mL)	6%	5%	94%
IL-18	Sandwich	215 - 0.29 (pg/mL)	151 (pg/mL)	0.38 (pg/mL)	0.15 (pg/mL)	8%	4%	103%

* 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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