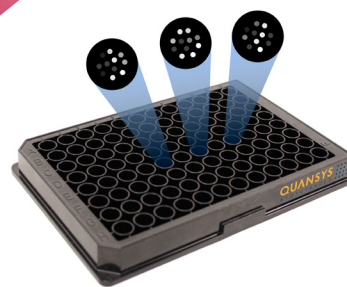


Q-PLEX™ HUMAN  
CYTOKINE  
INFLAMMATION  
PANEL 2  
(10-PLEX)



The Q-Plex™ Human Cytokine Inflammation Panel 2 (10-Plex) is a fully quantitative plate-based multiplex ELISA for the detection of cytokines associated with inflammation.

## Background

The Q-Plex™ Human Cytokine Inflammation Panel 2 (10-Plex) is a fully quantitative plate-based multiplex ELISA for the detection of cytokines associated with inflammation.

Production of inflammatory cytokines occurs normally to protect the host from pathogens, pain and wound healing, and growth signaling. However, excessive, or chronic production of inflammatory cytokines can damage host tissues and is associated with certain autoimmune diseases and cancers.

<b>Species Specificity</b>	Human
<b>Assay Type</b>	Sandwich
<b>Sample Type</b>	Human Serum, EDTA/ Heparin Plasma
<b>Assay Length</b>	2.25 hours
<b>Volume Required Per Well</b>	Min. 25 µL
<b>Detection Mention</b>	Chemiluminescent
<b>Multiplex Format</b>	96-well solid plate
<b>Catalog #</b>	110733HU

## 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
IFNα	Sandwich	400 - 0.5 (pg/mL)	280 (pg/mL)	0.72 (pg/mL)	0.27 (pg/mL)	9%	5%	100%
IFNβ	Sandwich	19000 - 26.1 (pg/mL)	21850 (pg/mL)	16150 (pg/mL)	18.57 (pg/mL)	11.7%	7.1%	110%
IFNγ	Sandwich	8000 - 10.97 (pg/mL)	5600 (pg/mL)	14.3 (pg/mL)	4.95 (pg/mL)	8%	6%	97%
IL-2	Sandwich	5213 - 7.15 (pg/mL)	3649 (pg/mL)	9.3 (pg/mL)	4.12 (pg/mL)	6%	5%	99%
IL-6	Sandwich	3000 - 4.12 (pg/mL)	2100 (pg/mL)	5.3 (pg/mL)	3.47 (pg/mL)	7%	7%	104%
IL-12p70	Sandwich	3000 - 4.12 (pg/mL)	2100 (pg/mL)	5.3 (pg/mL)	3.20 (pg/mL)	7%	7%	103%
IL-15	Sandwich	10733 - 14.72 (pg/mL)	7513 (pg/mL)	19.1 (pg/mL)	6.87 (pg/mL)	10%	10%	96%
IL-17a	Sandwich	16772 - 23.01 (pg/mL)	11740 (pg/mL)	29.9 (pg/mL)	22.57 (pg/mL)	7%	6%	95%
TNFα	Sandwich	6500 - 8.92 (pg/mL)	4522 (pg/mL)	11.5 (pg/mL)	7.74 (pg/mL)	6%	6%	98%
TNFβ	Sandwich	4000 - 5.49 (pg/mL)	2800 (pg/mL)	7.1 (pg/mL)	5.29 (pg/mL)	8%	7%	96%



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