

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



The Q-Plex NHP Cytokine Screen (16-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of 16 biomarkers or analytes.

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# Background

The Q-Plex NHP Cytokine Screen (16-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of 16 biomarkers or analytes. Multiple analyte measurements are achieved by adsorbing 16 distinct capture antibodies in a defined array to the bottom of each well of a 96-well plate. Our high-quality reagents help ensure the accuracy and precision of your results. Using only 25 µL of sample per well, up to 80 samples can be assayed for all 16 markers in the panel within 4 hours. The Q-Plex NHP Cytokine Screen (16-Plex) provides researchers with an easy-to-use and cost-effective means of generating a cytokine profile for each sample.

Species Specificity	NHP
Assay Type	Sandwich
Sample Type	Serum, Plasma
Assay Length	4 hours
Volume Required Per Well	Min. 25 µL
Detection Mention	Chemiluminescent
Multiplex Format	96-well solid plate
Catalog #	110933MB

## 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
CXCL-1	Sandwich	2,000 - 2.74 (pg/mL)	1,400 (pg/mL)	3.57 (pg/mL)	1.37 (pg/mL)	7.5%	3.7%	94%
GMCSF	Sandwich	6,000 - 8.23 (pg/mL)	4,200 (pg/mL)	10.7 (pg/mL)	4.12 (pg/mL)	4.0%	6.0%	112%
IFN $\gamma$	Sandwich	1,000 - 1.37 (pg/mL)	700 (pg/mL)	1.78 (pg/mL)	0.69 (pg/mL)	6.6%	4.0%	118%
IL-1 $\beta$	Sandwich	4,075 - 5.59 (pg/mL)	2852.5 (pg/mL)	7.27 (pg/mL)	2.79 (pg/mL)	8.6%	3.0%	113%
IL-2	Sandwich	650 - 0.89 (pg/mL)	455 (pg/mL)	1.16 (pg/mL)	0.45 (pg/mL)	8.7%	8.8%	118%
IL-4	Sandwich	60 - 0.082 (pg/mL)	42 (pg/mL)	0.11 (pg/mL)	0.041 (pg/mL)	5.7%	4.4%	109%
IL-5	Sandwich	333 - 0.46 (pg/mL)	233.1 (pg/mL)	0.59 (pg/mL)	0.23 (pg/mL)	7.3%	4.2%	98%
IL-6	Sandwich	1,000 - 1.37 (pg/mL)	700 (pg/mL)	1.78 (pg/mL)	0.69 (pg/mL)	9.3%	5.9%	107%
IL-8	Sandwich	2,000 - 2.74 (pg/mL)	1,400 (pg/mL)	3.57 (pg/mL)	1.37 (pg/mL)	11.5%	5.1%	99%
IL-10	Sandwich	2,680 - 3.68 (pg/mL)	1,867 (pg/mL)	4.78 (pg/mL)	1.84 (pg/mL)	9.5%	4.0%	101%
IL-12p70	Sandwich	3,000 - 4.12 (pg/mL)	2,100 (pg/mL)	5.35 (pg/mL)	2.06 (pg/mL)	11.2%	5.0%	106%
IL-13	Sandwich	333 - 0.46 (pg/mL)	233.1 (pg/mL)	0.59 (pg/mL)	0.23 (pg/mL)	6.3%	4.9%	98%
IL-15	Sandwich	3,578 - 4.91 (pg/mL)	2,504.6 (pg/mL)	6.38 (pg/mL)	2.45 (pg/mL)	5.1%	3.9%	98%
IL-17A	Sandwich	5,589 - 7.67 (pg/mL)	3,912.3 (pg/mL)	9.97 (pg/mL)	3.83 (pg/mL)	7.9%	7.8%	115%
IL-18	Sandwich	215 - 0.29 (pg/mL)	151 (pg/mL)	0.38 (pg/mL)	0.15 (pg/mL)	13.0%	4.0%	94%
TNF $\alpha$	Sandwich	250 - 0.34 (pg/mL)	175 (pg/mL)	0.45 (pg/mL)	0.17 (pg/mL)	8.1%	3.6%	106%

\* 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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