

Q-PLEX™ MOUSE CYTOKINE SCREEN HS (15-PLEX)



The Q-Plex™ Mouse Cytokine Screen HS (15-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of sixteen biomarkers or analytes.

Catalog #	Product	GMCSF	IFN γ	IL-1 α	IL-1 β	IL-2
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112449MS-15P Q-Plex Mouse Cytokine Screen HS (15-Plex)

IL-3	IL-4	IL-5	IL-6	IL-10
IL-12p70	IL-17A	MIP-1 α	RANTES	TNF α

Background

The Q-Plex Mouse Cytokine Screen HS (15-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of sixteen biomarkers or analytes: GMCSF, IFN γ , IL-1 α , IL-1 β , IL-2, IL-3, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-17A, MIP-1 α , TNF α , RANTES.

Each kit contains a 96-well plate, featuring the relevant biomarker panel, and all the reagents required to perform testing. Q-Plex™ plates are built by absorbing sixteen distinct capture antibodies in a defined array to the bottom of each well. Our high quality reagents help ensure the accuracy of your results.

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	560 - 0.77 (pg/mL)	301 (pg/mL)	0.77 (pg/mL)	0.38 (pg/mL)	4.9%	7.5%	94%
IFN γ	Sandwich	516 - 0.71 (pg/mL)	595 (pg/mL)	1.52 (pg/mL)	0.365 (pg/mL)	3.3%	5.5%	110%
IL-1 α	Sandwich	610 - 0.84 (pg/mL)	546 (pg/mL)	1.39 (pg/mL)	0.42 (pg/mL)	3.3%	7.4%	108%
IL-1 β	Sandwich	2,500 - 3.43 (pg/mL)	1,673 (pg/mL)	4.26 (pg/mL)	1.71 (pg/mL)	3.1%	9.3%	81%
IL-2	Sandwich	360 - 0.49 (pg/mL)	161 (pg/mL)	0.41 (pg/mL)	0.25 (pg/mL)	5.1%	6.6%	88%
IL-3	Sandwich	60 - 0.082 (pg/mL)	21 (pg/mL)	0.053 (pg/mL)	0.041 (pg/mL)	4.7%	7.0%	106%
IL-4	Sandwich	400 - 0.55 (pg/mL)	126 (pg/mL)	0.32 (pg/mL)	0.27 (pg/mL)	6.2%	6.6%	98%
IL-5	Sandwich	546 - 0.75 (pg/mL)	609 (pg/mL)	1.55 (pg/mL)	0.37 (pg/mL)	6.6%	5.2%	103%
IL-6	Sandwich	504 - 0.69 (pg/mL)	819 (pg/mL)	2.09 (pg/mL)	0.35 (pg/mL)	7.3%	6.1%	106%
IL-10	Sandwich	667 - 0.91 (pg/mL)	469 (pg/mL)	1.19 (pg/mL)	0.46 (pg/mL)	7.5%	3.0%	113%
IL-12p70	Sandwich	572 - 0.78 (pg/mL)	399 (pg/mL)	1.02 (pg/mL)	0.39 (pg/mL)	5.5%	10.8%	107%
IL-17A	Sandwich	760 - 1.04 (pg/mL)	539 (pg/mL)	1.37 (pg/mL)	0.52 (pg/mL)	6.5%	6.1%	92%
MIP-1 α	Sandwich	1,000 - 1.37 (pg/mL)	483 (pg/mL)	1.23 (pg/mL)	0.69 (pg/mL)	10.9%	6.7%	94%
RANTES	Sandwich	1,653 - 2.27 (pg/mL)	1,330 (pg/mL)	3.39 (pg/mL)	1.13 (pg/mL)	5.0%	5.5%	108%
TNF α	Sandwich	429 - 0.59 (pg/mL)	217 (pg/mL)	0.55 (pg/mL)	0.29 (pg/mL)	6.9%	5.2%	104%

* 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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