

## Q-Plex™ Mouse Cytokine Panels

The Q-Plex™ Mouse Cytokine Panel 1 (6-Plex), Q-Plex™ Mouse Cytokine Panel 2 (4-Plex), and the Q-Plex™ Mouse Cytokine Panel 3 (4-Plex) are fully quantitative ELISA-based chemiluminescent assays allowing the concurrent measurement of four to six biomarkers or analytes: IFN $\gamma$ , IL-1 $\alpha$ , IL-1 $\beta$ , IL-2, IL-4, IL-6, IL-10, and TNF $\alpha$ . See kits below.

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.

Using just 50  $\mu$ L of sample per well, up to 80 samples can be assayed for all sixteen markers in the panel within 2.5 hours. Q-Plex™ Arrays provide researchers with an easy-to-use and cost effective means of generating a cytokine profile for each sample.

Catalog #	Product				
111349MS	Q-Plex™ Mouse Cytokine Panel 1 (6-Plex)	IFN $\gamma$	IL-1 $\alpha$	IL-1 $\beta$	
		IL-6	IL-10	TNF $\alpha$	
111149MS	Q-Plex™ Mouse Cytokine Panel 2 (4-Plex)	IFN $\gamma$	IL-1 $\beta$	IL-6	TNF $\alpha$
111249MS	Q-Plex™ Mouse Cytokine Panel 3 (4-Plex)	IL-2	IL-4	IL-6	TNF $\alpha$

### Q-Plex Mouse Cytokine Panel 1 (6-Plex) Product Range

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	516 - 0.71 (pg/mL)	361 (pg/mL)	0.94 (pg/mL)	0.35 (pg/mL)	3.3%	5.5%	110%
IL-1 $\alpha$	Sandwich	610 - 0.84 (pg/mL)	427 (pg/mL)	1.1 (pg/mL)	0.42 (pg/mL)	3.3%	7.4%	108%
IL-1 $\beta$	Sandwich	2500 - 3.43 (pg/mL)	1750 (pg/mL)	4.5 (pg/mL)	1.71 (pg/mL)	3.1%	9.3%	81%
IL-6	Sandwich	504 - 0.69 (pg/mL)	353 (pg/mL)	0.91 (pg/mL)	0.35 (pg/mL)	7.3%	6.1%	106%
IL-10	Sandwich	667 - 0.91 (pg/mL)	467 (pg/mL)	1.33 (pg/mL)	0.46 (pg/mL)	7.5%	3.0%	108%
TNF $\alpha$	Sandwich	429 - 0.59 (pg/mL)	300 (pg/mL)	0.69 (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.

## Q-Plex Mouse Cytokine Panel 2 (4-Plex) Product Range

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	516 - 0.71 (pg/mL)	361 (pg/mL)	0.94 (pg/mL)	0.35 (pg/mL)	3.3%	5.5%	110%
IL-1 $\beta$	Sandwich	2500 - 3.43 (pg/mL)	1750 (pg/mL)	4.5 (pg/mL)	1.71 (pg/mL)	3.1%	9.3%	81%
IL-6	Sandwich	504 - 0.69 (pg/mL)	353 (pg/mL)	0.91 (pg/mL)	0.35 (pg/mL)	7.3%	6.1%	106%
TNF $\alpha$	Sandwich	429 - 0.59 (pg/mL)	300 (pg/mL)	0.69 (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.

## Q-Plex Mouse Cytokine Panel 3 (4-Plex) Product Range

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
IL-2	Sandwich	360 - 0.49 (pg/mL)	252 (pg/mL)	0.6 (pg/mL)	0.25 (pg/mL)	5.1%	6.6%	88%
IL-4	Sandwich	400 - 0.55 (pg/mL)	280 (pg/mL)	0.7 (pg/mL)	0.27 (pg/mL)	6.2%	6.6%	98%
IL-6	Sandwich	504 - 0.69 (pg/mL)	353 (pg/mL)	0.91 (pg/mL)	0.35 (pg/mL)	7.3%	6.1%	106%
TNF $\alpha$	Sandwich	429 - 0.59 (pg/mL)	300 (pg/mL)	0.69 (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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