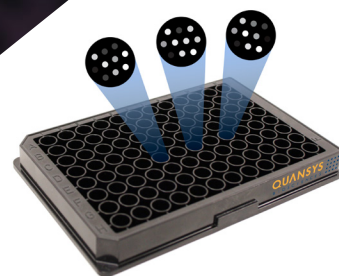
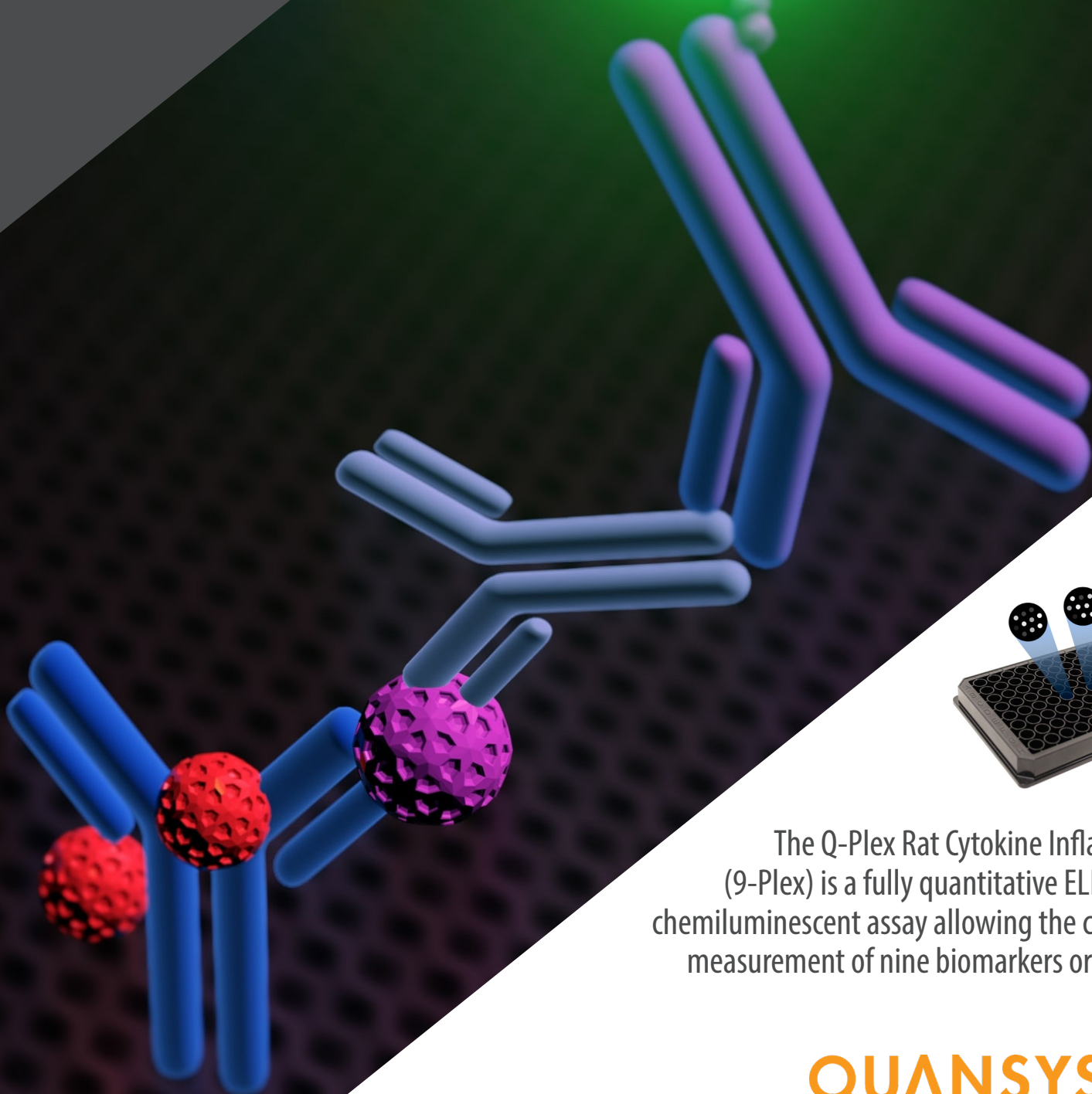


Q-PLEX™ RAT CYTOKINE INFLAMMATION (9-PLEX)



The Q-Plex Rat Cytokine Inflammation (9-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of nine biomarkers or analytes.

QUANSTYS 
BIOSCIENCES

Catalog #	Product	Markers				
111649RT	Q-Plex™ Rat Cytokine Inflammation (9-Plex)	IFN γ IL-6	IL-1 α IL-10	IL-1 β IL-12p70	IL-2 TNF α	IL-4

Background

The Q-Plex Rat Cytokine Inflammation (9-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of nine biomarkers or analytes IL-1 α , IL-1 β , IL-2, IL-4, IL-6, IL-10, IL-12p70, IFN γ , TNF α .

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 nine 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 μ L of sample per well, up to 80 samples can be assayed for all nine markers in the panel within 3 hours. Q-Plex™ Arrays provide researchers with an easy-to-use and cost effective means of generating a cytokine profile for each sample.

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
IFN γ	Sandwich	6,000 - 8.23 (pg/mL)	4,200 (pg/mL)	10.7 (pg/mL)	4.12 (pg/mL)	9.8%	9.7%	97%
IL-1 α	Sandwich	5,400 - 7.41 (pg/mL)	3,780 (pg/mL)	9.6 (pg/mL)	3.7 (pg/mL)	8.5%	8.8%	101%
IL-1 β	Sandwich	3,200 - 4.39 (pg/mL)	2,240 (pg/mL)	5.7 (pg/mL)	2.19 (pg/mL)	7.7%	7.9%	102%
IL-2	Sandwich	9,800 - 13.44 (pg/mL)	6,860 (pg/mL)	17.5 (pg/mL)	6.72 (pg/mL)	9.9%	10.1%	99%
IL-4	Sandwich	4,000 - 5.49 (pg/mL)	2,800 (pg/mL)	7.1 (pg/mL)	2.74 (pg/mL)	9.4%	4.3%	97%
IL-6	Sandwich	83,000 - 114 (pg/mL)	58,100 (pg/mL)	148 (pg/mL)	56.93 (pg/mL)	8.0%	9.1%	104%
IL-10	Sandwich	14,000 - 19.20 (pg/mL)	9,800 (pg/mL)	25 (pg/mL)	9.6 (pg/mL)	10.8%	8.4%	101%
IL-12p70	Sandwich	92,000 - 126 (pg/mL)	64,400 (pg/mL)	164.1 (pg/mL)	63.1 (pg/mL)	10.5%	7.1%	101%
TNF α	Sandwich	37,000 - 50.75 (pg/mL)	25,900 (pg/mL)	66 (pg/mL)	25.38 (pg/mL)	9.4%	8.4%	116%

* Actual values may vary from kit to kit. Please see the In-Kit Certificate of Analysis included in your kit for specific values.



Quansys Biosciences
365 North 600 West
Logan, UT 84321
www.quansysbio.com
Fax: 435-750-6869
Phone: 435-752-0531
Toll Free: 888-QUANSYS (782-6797)



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