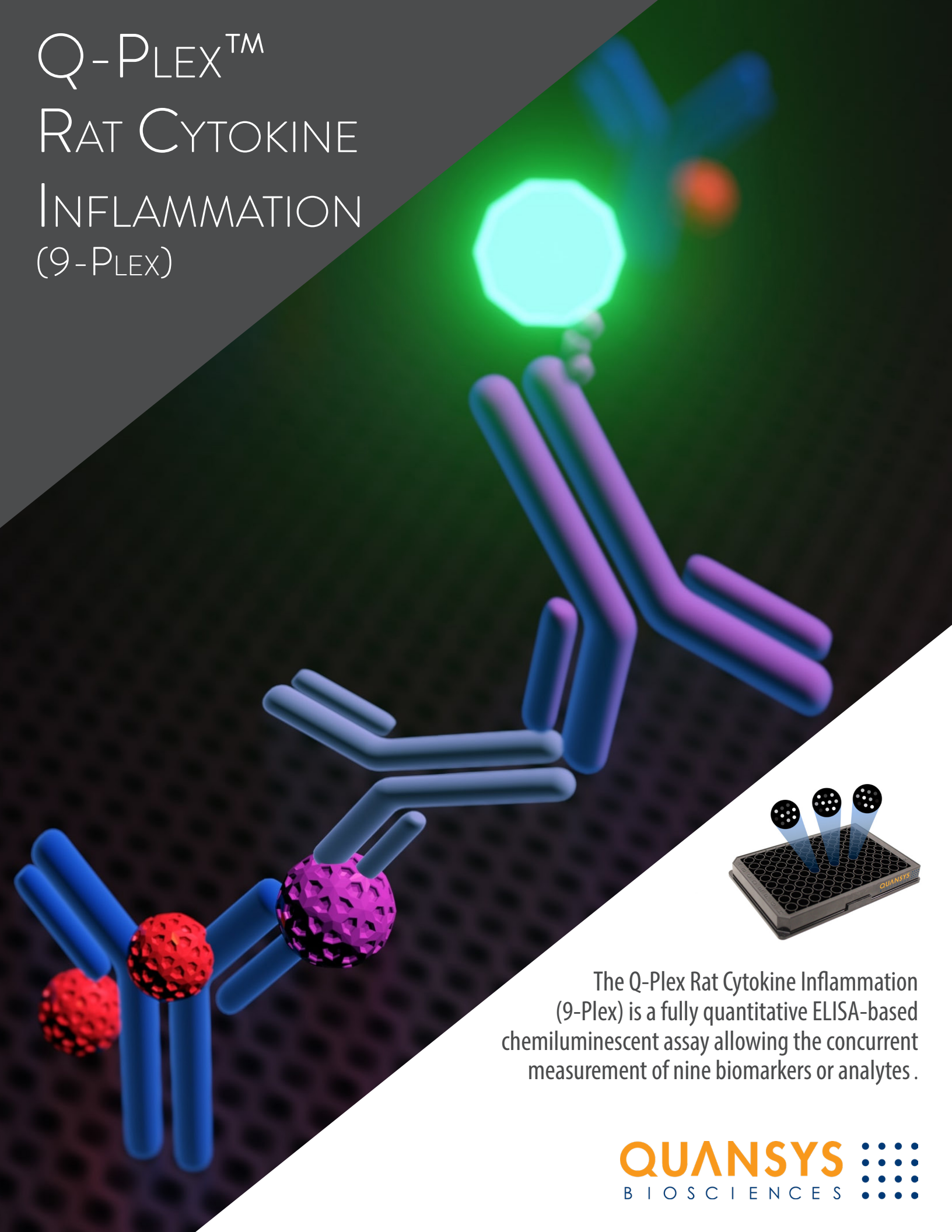
Q-Plex™ Rat Cytokine Inflammation (9-Plex)



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 .

QUANSYS BIOSCIENCES

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

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-1α, IL-1β, IL-2, IL-4, IL-6, IL-10, IL-12p70, IFNγ, TNFα.

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 µL 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
IFNγ	Sandwich	6,000 - 8.23 (pg/mL)	4,200 (pg/mL)	10.70 (pg/mL)	4.12 (pg/mL)	9.8%	9.7%	97%
IL-1α	Sandwich	5,400 - 7.41 (pg/mL)	3,780 (pg/mL)	9.63 (pg/mL)	3.70 (pg/mL)	8.5%	8.8%	101%
IL-1β	Sandwich	3,200 - 4.39 (pg/mL)	2,240 (pg/mL)	5.71 (pg/mL)	2.19 (pg/mL)	7.7%	7.9%	102%
IL-2	Sandwich	9,800 - 13.44 (pg/mL)	6,860 (pg/mL)	17.48 (pg/mL)	6.72 (pg/mL)	9.9%	10.1%	99%
IL-4	Sandwich	4,000 - 5.49 (pg/mL)	2,800 (pg/mL)	7.13 (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)	24.97 (pg/mL)	9.60 (pg/mL)	10.8%	8.4%	101%
IL-12p70	Sandwich	92,000 - 126 (pg/mL)	64,400 (pg/mL)	164 (pg/mL)	63.10 (pg/mL)	10.5%	7.1%	101%
TNFα	Sandwich	37,000 - 50.75 (pg/mL)	25,900 (pg/mL)	65.98 (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

Phone: 435-752-0531
Toll Free: 888-QUANSYS (782-6797)

Quansys is an ISO 9001:2015 and ISO 13485:2016 registered company and complies with GMP. Products are designed, developed, and manufactured according to the procedures outlined in our Quality Management System.

©2026 Quansys Biosciences Inc. All rights reserved. Q-View and Q-Plex are trademarks of Quansys Biosciences Inc. ISO is a trademark of the International Organization for Standardization. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.