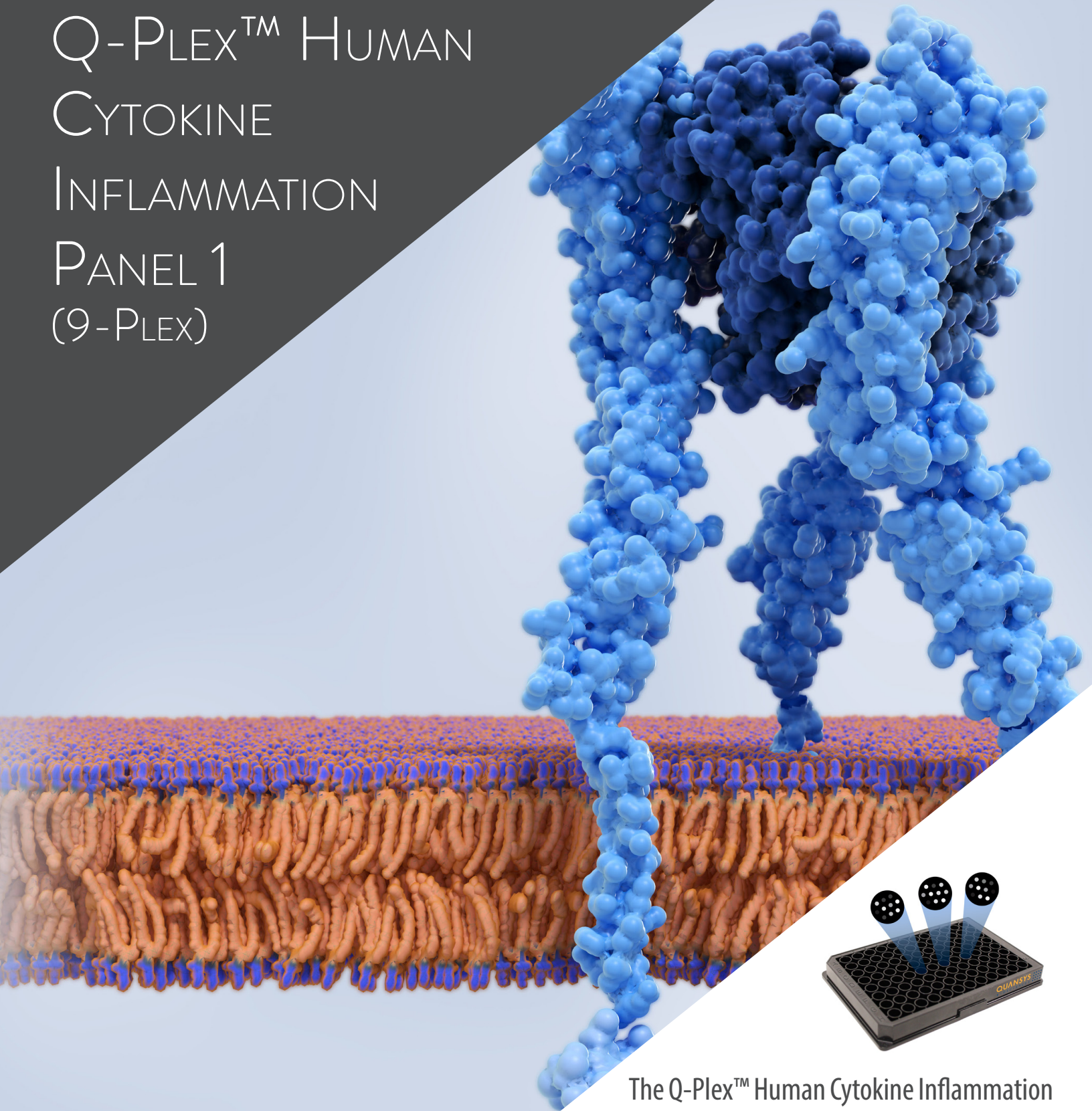


Q-PLEX™ HUMAN
CYTOKINE
INFLAMMATION
PANEL 1
(9-PLEX)



The Q-Plex™ Human Cytokine Inflammation Panel 1 (9-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of nine biomarkers or analytes.

| Catalog # | Product | Markers | | | |
|-----------|--|--------------------------------------|-----------------------|----------------------|---------------|
| 110433HU | Q-Plex™ Human Cytokine Inflammation Panel 1 (9-Plex) | IFN γ IL-4 TNF α | IL-1 α IL-6 | IL-1 β IL-8 | IL-2 IL-10 |

Background

The Q-Plex™ Human Cytokine Inflammation Panel 1 (9-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of nine biomarkers or analytes: IFN γ , IL-1 α , IL-1 β , IL-2, IL-4, IL-6, IL-8, IL-10, and 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 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.

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 | 8000 -10.97 (pg/mL) | 5600 (pg/mL) | 14.3 (pg/mL) | 5.49 (pg/mL) | 8% | 4% | 97% |
| IL-1 α | Sandwich | 4000 -5.49 (pg/mL) | 2800 (pg/mL) | 7.1 (pg/mL) | 2.74 (pg/mL) | 6% | 7% | 86% |
| IL-1 β | Sandwich | 12226 -16.77 (pg/mL) | 8558 (pg/mL) | 21.8 (pg/mL) | 8.39 (pg/mL) | 8% | 5% | 94% |
| IL-2 | Sandwich | 5213 – 7.15 (pg/mL) | 3649 (pg/mL) | 9.3 (pg/mL) | 3.58 (pg/mL) | 6% | 4% | 99% |
| IL-4 | Sandwich | 1676 – 2.30 (pg/mL) | 1173 (pg/mL) | 3.0 (pg/mL) | 1.15 (pg/mL) | 6% | 6% | 94% |
| IL-6 | Sandwich | 3000 – 4.12 (pg/mL) | 2100 (pg/mL) | 5.3 (pg/mL) | 2.06 (pg/mL) | 7% | 4% | 104% |
| IL-8 | Sandwich | 2000 – 2.74 (pg/mL) | 1400 (pg/mL) | 3.6 (pg/mL) | 1.37 (pg/mL) | 12% | 7% | 100% |
| IL-10 | Sandwich | 8039 – 11.03 (pg/mL) | 5627 (pg/mL) | 14.3 (pg/mL) | 5.51 (pg/mL) | 7% | 5% | 103% |
| TNF α | Sandwich | 6500 – 8.92 (pg/mL) | 4522 (pg/mL) | 11.5 (pg/mL) | 4.46 (pg/mL) | 6% | 5% | 98% |

* 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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