

Q-Plex™ Human Chemokine (9-Plex)

The Q-Plex Human Chemokine (9-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of nine biomarkers or analytes: Eotaxin, GRO α , I-309, IL-8, IP-10, MCP-1, MCP-2, RANTES, and TARC.

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.

Catalog #	Product	Markers
120233HU	Q-Plex™ Human Chemokine (9-Plex)	CXCL-1 Eotaxin-1 I-309 IL-8 IP-10 MCP-1 MCP-2 RANTES TARC

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
CXCL-1	Sandwich	2000 – 2.74 (pg/mL)	1400 (pg/mL)	3.6 (pg/mL)	1.20 (pg/mL)	8%	9%	101%
Eotaxin-1	Sandwich	1745 – 2.39 (pg/mL)	1222 (pg/mL)	3.1 (pg/mL)	0.73 (pg/mL)	8%	7%	107%
I-309	Sandwich	2273 – 3.12 (pg/mL)	1591 (pg/mL)	4.1 (pg/mL)	3.11 (pg/mL)	10%	9%	98%
IL-8	Sandwich	2000 – 2.74 (pg/mL)	1400 (pg/mL)	3.6 (pg/mL)	2.70 (pg/mL)	12%	12%	100%
IP-10	Sandwich	2984 – 4.09 (pg/mL)	700 (pg/mL)	5.3 (pg/mL)	4.03 (pg/mL)	6%	5%	100%
MCP-1	Sandwich	2000 – 2.74 (pg/mL)	467 (pg/mL)	3.6 (pg/mL)	2.60 (pg/mL)	7%	7%	108%
MCP-2	Sandwich	564 – 0.77 (pg/mL)	395 (pg/mL)	9.1 (pg/mL)	1.27 (pg/mL)	11%	6%	103%
RANTES	Sandwich	6703 – 9.19 (pg/mL)	4692 (pg/mL)	12.0 (pg/mL)	6.59 (pg/mL)	7%	7%	102%

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

The Q-Plex™ Array

Spotting in 96 Well Plate

- ▶ Robotic liquid handlers print 20-50nL spots of capture antibody
- ▶ Each spot is a unique assay within the well
- ▶ Low spot-to-spot variability (CV)
- ▶ Spot size 350-500µm
- ▶ Plates are QC'd for spot quality

Performing the Assay

- ▶ Add as little as 25µL of sample
- ▶ Wash
- ▶ Add mix of detection antibodies specific to kit
- ▶ Wash
- ▶ Add streptavidin conjugated HRP

Detection of Sample

- ▶ With the addition of substrate, a response is produced
- ▶ If antigen is present the spot emits a signal proportional to the amount of antigen in the sample
- ▶ If no antigen is present, the spot is not visible

Image Capture

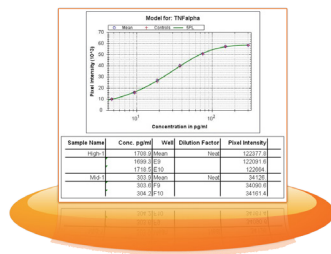
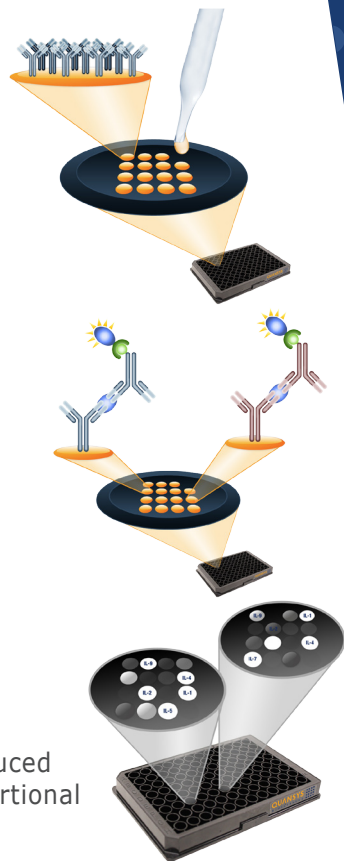
- ▶ An image of the plate is taken via a high resolution camera contained within the Q-View™ Imager LS

Image Analysis

- ▶ Image is opened in Q-View™ Software
- ▶ Spots are automatically found on plate image
- ▶ Intensity of spot response is measured and raw data is generated
- ▶ User imports product specs and well layout

Data Analysis

- ▶ Raw data is analyzed and compared to in-plate standard
- ▶ Regression models used to calculate unknowns
- ▶ Standard curves are calculated and sample and statistical data is exported



Increase productivity with Quansys products and services. Save time, sample, and money.

Q-Plex™ ARRAYS

Our Q-Plex Arrays are quantitative multiplex ELISAs with distinct proteins deposited in a defined array. Choose one of our standard kits for immediate delivery or customize the exact array you need.

Q-View™ IMAGERS

The Q-View™ Imager LS is a high quality, low-cost imaging systems for chemiluminescent assay imaging.

Q-View™ SOFTWARE

The Q-View Software is a user-friendly image analysis app that enables the acquisition and analysis of large amounts of multiplex ELISA data.

SAMPLE TESTING SERVICE

Our lab runs immunoassays on a wide variety of biological samples. Increase productivity and focus on your core research while we test your samples for you.



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