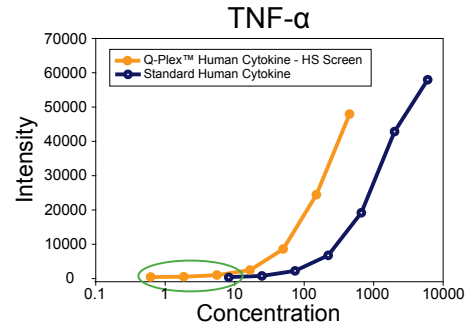


## A Q-Plex Kit For Measuring Low Cytokine Concentrations

The Q-Plex™ Human Cytokine - HS Screen is a fully quantitative multiplexed ELISA kit for researchers looking to measure low concentrations of human cytokines.

This chemiluminescent assay allows for the concurrent measurement of IL-1α, IL-1β, IL-2, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-13, IL-15, IL-17, IL-23, IFN-γ, TNF-α, TNF-β.

Each kit contains a 96-well plate, containing a defined array of unique capture antibodies per well, and the reagents required to perform testing. All fifteen markers in the panel can be tested in as little as 2.5 hours. Q-Plex kits provide an accurate and efficient means of generating a cytokine profile for each sample.



Quantifiable concentrations of TNF-α demonstrate enhanced sensitivity of Q-Plex™ Human Cytokine - HS Screen

## Human High Sensitivity Kits

Catalog #	Product	Markers
112451HU	Q-Plex™ Human Cytokine - HS Screen (15-plex)	IL-1α, IL-1β, IL-2, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-13, IL-15, IL-17, IL-23, IFN-γ, TNF-α, TNF-β
112551HU	Q-Plex™ Human Cytokine - HS Screen (4-plex)	IL-4, IL-6, IL-10, IFN-γ

## Product Range

	Range (pg/ml)	LLD (pg/ml)	Standard* (pg/ml)
IL-1α	1300 - 1.78	1.05	1300
IL-1β	3100 - 4.25	0.83	3100
IL-2	45 - 0.06	0.06	45
IL-4	18 - 0.03	0.01	18
IL-5	300 - 0.4	0.13	300
IL-6	360 - 0.48	0.13	360
IL-10	750 - 1.03	0.14	750
IL-12p70	3600 - 4.94	0.49	3600
IL-13	300 - 0.41	0.08	300
IL-15	990 - 1.36	0.24	990
IL-17	1650 - 2.26	1.28	1650
IL-23	9700 - 13.31	3.13	9700
IFN-γ	62 - 0.09	0.04	62
TNFα	450 - 0.62	0.55	450
TNFβ	440 - 0.60	0.52	440

\* Actual values may vary from kit to kit. Please see the antigen card 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 30uL of sample
- ▶ Wash
- ▶ Add mix of detection antibodies specific to kit
- ▶ Wash
- ▶ Add streptavidin conjugated HRP or IR-Dye

## 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 (Q-View Imager or approved gel doc system) or fluorescent scanner (LI-COR Odyssey)
- ▶ The image file (TIFF) is imported into Q-View Software and a Q-View Project is created

## 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 deliver or customize the exact array you need.

## Q-View™ IMAGER

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

## Q-View™ SOFTWARE

Q-View Software is a user friendly image analysis package 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 sample types from bioresearch. Increase productivity and focus on your core research while we test your samples for you.

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