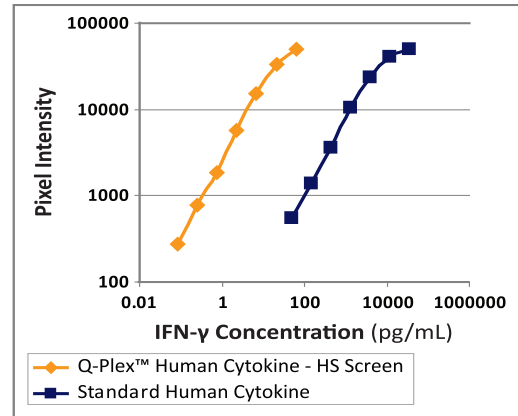


## A Q-Plex Kit For Measuring Low Cytokine Concentrations

The Q-Plex™ Human Cytokine - HS Screen (15-Plex) is a fully quantitative multiplexed ELISA kit for researchers looking to measure low concentrations of human cytokines. These chemiluminescent assays allow 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.

HS kits contain a 96-well plate and the optimized reagents required to perform testing. Each well of the included plate features a defined array of unique capture antibodies for the fifteen markers in the panel. Requiring only 50 μL, Q-Plex kits provide an efficient means of generating an accurate cytokine profile for each sample.



Quantifiable concentrations of IFN-γ 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-5, IL-13, IFN-γ
112449HU*		IL-1β, IL-6, IL-15, TNF-α
		IL-2, IL-10, IL-17, TNF-β
		IL-4, IL-12p70, IL-23
114449HU	Q-Plex™ Human Cytokine - HS (9-plex)	IL-1α, IL-5, IL-17
114451HU*		IL-1β, IL-6, IFN-γ
		IL-4, IL-10, TNF-α
112551HU	Q-Plex™ Human Cytokine - HS Demo (4-plex)	IL-4, IL-6, IL-10, IFN-γ

\*For use with Quansys Imagers only

## Product Range

	Range (pg/mL)	LLD (pg/mL)	Standard† (pg/mL)
IFN-γ	80 - 0.11	0.1	80
IL-1α	1300 - 1.78	1.4	1300
IL-1β	3070 - 4.12	1.75	3070
IL-2	50 - 0.07	0.07	50
IL-4	23 - 0.03	0.02	23
IL-5	360 - 0.49	0.2	360
IL-6	350 - 0.48	0.4	350
IL-10	950 - 1.30	1.1	950
IL-12p70	3000 - 4.12	3	3000
IL-13	340 - 0.47	0.23	340
IL-15	950 - 1.30	0.43	950
IL-17	1200 - 1.65	1.48	1200
IL-23	9000 - 12.35	1.5	9000
TNFα	440 - 0.60	0.31	440
TNFβ	470 - 0.64	0.57	470

† 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 50µL 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

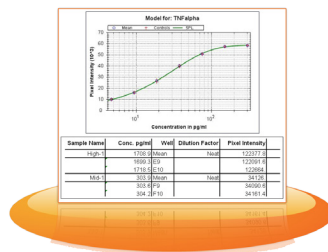
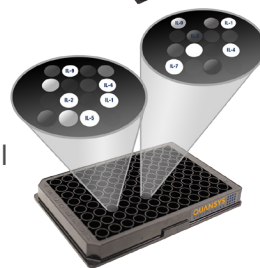
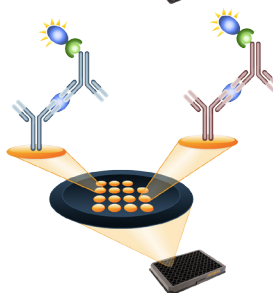
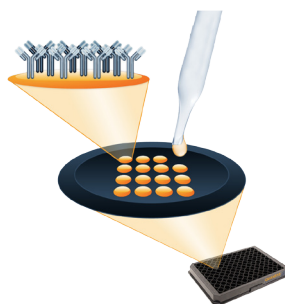
- ▶ An image of the plate is taken via a high resolution camera (Q-View Imager Pro, Q-View Imager LS or approved gel doc system) or fluorescent scanner (LI-COR Odyssey)
- ▶ The image file (TIFF) is imported into Q-View Software and a Q-View Project is created

## 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 delivery or customize the exact array you need.

## Q-View™ IMAGERS

The Q-View Imager Pro and Q-View Imager LS are 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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