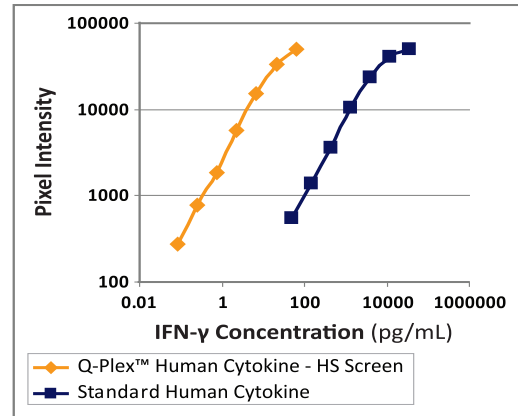


A Q-Plex Kit For Measuring Low Cytokine Concentrations

The Q-Plex™ Human Cytokine - HS Screen (9-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-1 α , IL-1 β , IL-4, IL-5, IL-6, IL-10, IL-17, IFN- γ , TNF- α .

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 nine markers in the panel. Requiring only 50 μ L, 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-1 α IL-5 IL-13 IFN- γ IL-1 β 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-1 α IL-5 IL-17 IL-1 β 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

	Units	Range (pg/mL)	LLD (pg/mL)
IFN- γ	pg/ml	80 - 0.11	0.10
IL-1 α	pg/ml	1300 - 1.78	1.4
IL-1 β	pg/ml	3070 - 4.21	1.75
IL-4	pg/ml	23 - 0.03	0.02
IL-5	pg/ml	360 - 0.49	0.2
IL-6	pg/ml	350 - 0.48	0.40
IL-10	pg/ml	950 - 1.30	1.10
IL-17	pg/ml	1200 - 1.65	1.48
TNF α	pg/ml	440 - 0.60	0.31

† 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

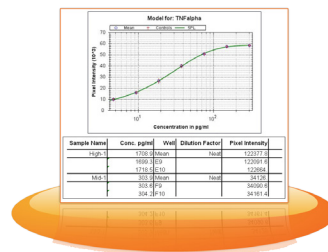
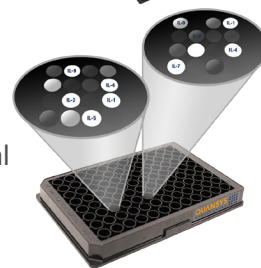
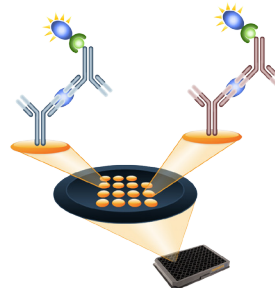
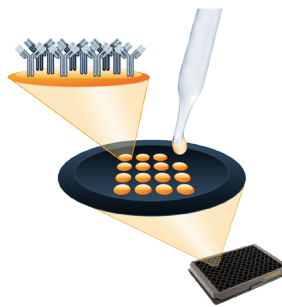
- ▶ An image of the plate is taken via a high resolution camera (Q-View Imager Pro, Q-View Imager LS or approved gel doc system) or fluorescent scanner (LI-COR Odyssey)
- ▶ The image file (TIFF) is imported into Q-View Software and a Q-View Project is created

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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