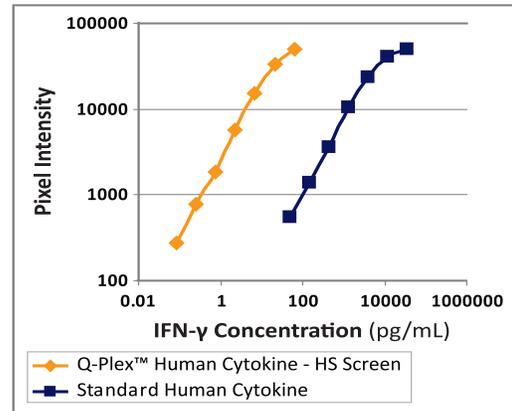


A Q-Plex™ Kit For Measuring Low Cytokine Concentrations

The Q-Plex™ Human Cytokine HS (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 IFN-γ, IL-1α, IL-1β, IL-2, IL-4, IL-5, IL-6, IL-10, IL-12, IL-13, IL-15, IL-17, IL-23, TNF-α, TNF-β.

The high sensitivity (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 each marker in the panel. Requiring only 25 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

Human Cytokine HS Kits

Catalog #	Product	Markers			
112433HU	Q-Plex™ Human Cytokine HS (15-Plex)	IFN-γ IL-4 IL-12p70 IL-23	IL-1α IL-5 IL-13 TNF-α	IL-1β IL-6 IL-15 TNF-β	IL-2 IL-10 IL-17
112533HU	Q-Plex™ Human Cytokine HS (4-Plex)	IFN-γ	IL-4	IL-6	IL-10

Product Range

Analytes	Units	Range (pg/mL)	LLD (pg/mL)
IFN-γ	pg/mL	99 - 0.18	0.09
IL-1α	pg/mL	1333 - 2.38	1.19
IL-1β	pg/mL	4075 - 7.27	3.64
IL-2	pg/mL	64 - 0.11	0.06
IL-4	pg/mL	21 - 0.04	0.02
IL-5	pg/mL	333 - 0.59	0.30
IL-6	pg/mL	333 - 0.59	0.30
IL-10	pg/mL	2680 - 4.78	2.39
IL-12p70	pg/mL	3000 - 5.35	2.68
IL-13	pg/mL	333 - 0.59	0.30
IL-15	pg/mL	3578 - 6.38	3.19
IL-17	pg/mL	5589 - 9.97	4.99
IL-23	pg/mL	8900 - 12.21	6.11
TNFα	pg/mL	661 - 1.18	0.59
TNFβ	pg/mL	444 - 0.79	0.40

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

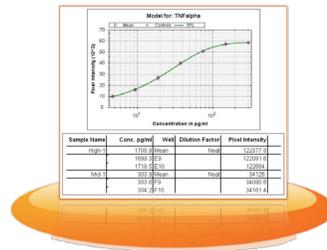
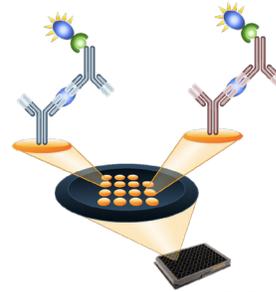
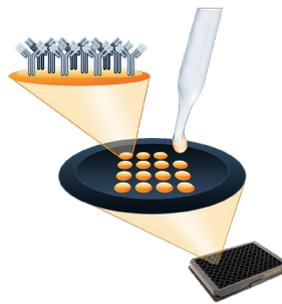
- ▶ An image of the plate is taken via a high resolution camera contained within the Q-View™ Imager LS

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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Quansys is an ISO 9001:2015 and ISO 13485:2016 registered company and complies with cGMP. Products are designed, developed, and manufactured according to the procedures outlined in our Quality Management System.

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