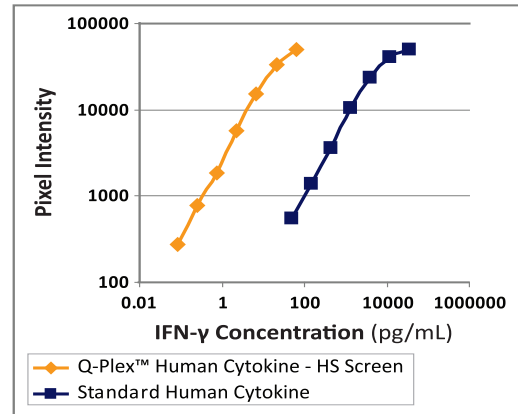


## A Q-Plex™ Kit For Measuring Low Cytokine Concentrations

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-1α, IL-1β, IL-2, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-13, IL-15, IL-17, IL-23, TNF-α, TNF-β |
| 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

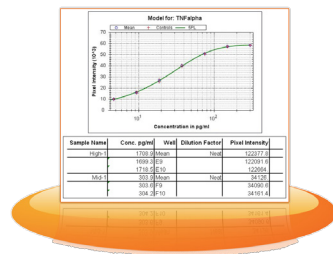
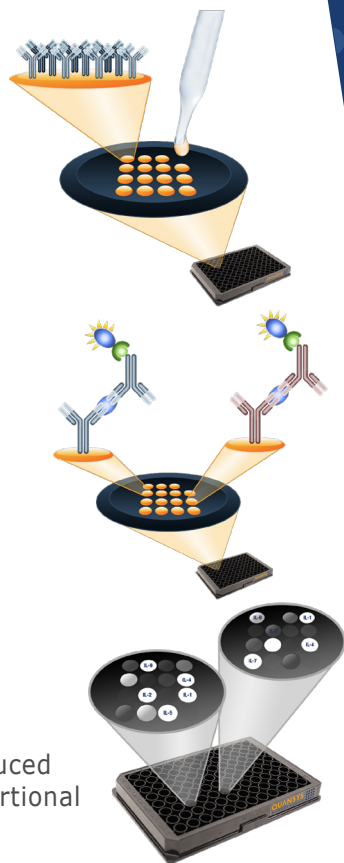
- ▶ An image of the plate is taken via a high resolution camera contained within the Q-View™ Imager LS

## 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.



**Quansys Biosciences**  
365 North 600 West  
Logan, UT 84321  
www.quansysbio.com

Fax: 435-750-6869  
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Toll Free: 888-QUANSYS (782-6797)

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