

## Q-Plex™ Human Female Hormone (6-Plex)

In order to assist researchers in examining the relationship between stress and reproductive health, Quansys developed the Q-Plex Human Female Hormone (6-Plex) array. Multiplex protein detection gives researchers the flexibility to measure both stress- and reproduction-related proteins simultaneously, saving them time, precious sample, and research money.

The Q-Plex Human Female Hormone (6-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of six biomarkers or analytes (Adiponectin, Cortisol, C-Peptide, E1G, FSH, and HCG $\beta$ ).

Each kit contains a 96-well plate, featuring the relevant biomarker panel, and all the reagents required to perform testing. Q-Plex™ plates are built by absorbing eight distinct capture antibodies in a defined array to the bottom of each well. Our high quality reagents help ensure the accuracy of your results.

Using just 50  $\mu$ L of sample per well, up to 80 samples can be assayed for all six markers in the panel within 2.5 hours. Q-Plex Arrays provide researchers with an easy-to-use and cost effective means of generating a cytokine profile for each sample.

Catalog #	Product	Markers
332151HU	Q-Plex™ Human Female Hormone (6-Plex)	Adiponectin E1G    Cortisol FSH    C-Peptide HCG $\beta$

### Product Range

Analytes	Units	Range	LLD
Adiponectin	ng/mL	28.3 - 0.12	1.64
Cortisol	ng/mL	744 - 1.02	6.45
C-Peptide	ng/mL	39 - 0.16	0.16
E1G	ng/mL	522 - 0.72	0.50
FSH	mIU/mL	167 - 0.69	2.30
HCG $\beta$	ng/mL	50 - 0.07	0.05

\* 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 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

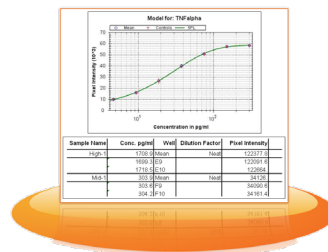
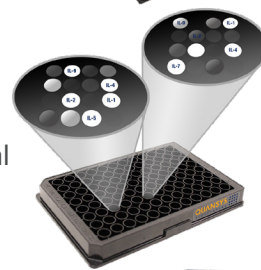
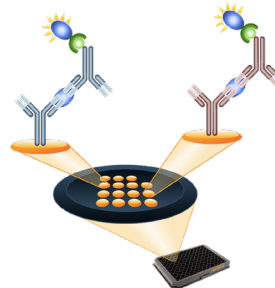
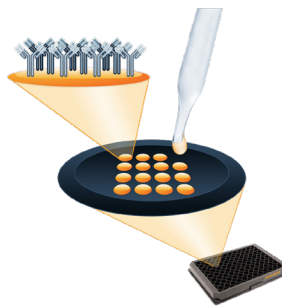
- ▶ An image of the plate is taken via a high resolution camera (Q-View Imager Pro, Q-View Imager LS or approved gel doc system) or fluorescent scanner (LI-COR Odyssey)
- ▶ The image file (TIFF) is imported into Q-View Software and a Q-View Project is created

## 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 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 GMP. Products are designed, developed, and manufactured according to the procedures outlined in our Quality Management System.

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