Q-Plex™ Human Obesity Array

The Q-Plex™ Human Obesity (7-plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of seven biomarkers or analytes (Adipsin, Glucagon, PAI-1, VEGF, RBP4, Ghrelin and Leptin).

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 seven 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 µl of sample per well, up to 80 samples can be assayed for all seven 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.

Response profiles of two samples (Replicates are in each row) demonstrate typical sample result and reproducibility

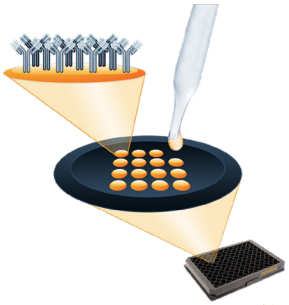
Obesity Kit

Catalog #	Product	Markers
119049HU	Q-Plex™ Human Obesity Array (7-plex)	Adipsin, Glucagon, PAI-1, VEGF, RBP4, Ghrelin, Leptin

Product Range

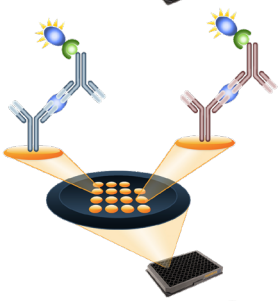
Analyte	Units	Calibrator Range	LLD Limit
Adipsin	pg/mL	16.6 - 0.02	0.02
Glucagon	pg/mL	2500 - 3.40	2.63
PAI-1	pg/mL	3000 - 4.10	2.75
VEGF	pg/mL	3000 - 0.14	5.18
RBP4	pg/mL	100 - 0.14	0.09
Ghrelin	pg/mL	2300 - 3.20	2.19
Leptin	pg/mL	3400 - 4.70	3.91

The Q-Plex™ Array



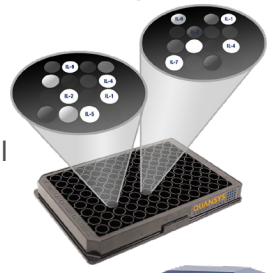
Spotting in 96 Well Plate

- 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

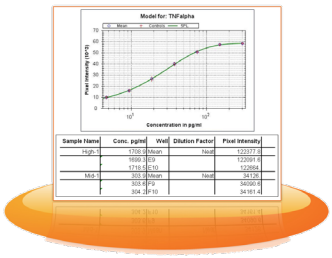
- With the addition of substrate, a response is produced
- If antigen is present the spot emits a signal proportional to the amount of antigen in the sample
- If no antigen is present, the spot is not visible

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.

nqa ISO 9001 Registered Quality Management

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QUANSYS BIOSCIENCES

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