

## Q-Plex™ Human Angiogenesis

The Q-Plex™ Human Angiogenesis (9-plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of nine biomarkers or analytes (ANG-2, FGF basic, HGF, IL-8, PDGF-BB, TIMP-1, TIMP-2, TNF $\alpha$ , VEGF).

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 nine 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 nine 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.

### Human Angiogenesis

Catalog #	Product	Markers			
150251HU	Q-Plex™ Human Angiogenesis (9-plex)	ANG-2 PDGF-BB VEGF	FGF basic TIMP-1	HGF TIMP-2	IL-8 TNF $\alpha$

### Product Range

	Range (pg/ml)	LLD (pg/ml)	Standard* (pg/ml)
ANG-2	7700 - 10.6	1.23	7700
FGF basic	4600 - 6.3	1.36	4600
HGF	12000 - 16.5	3.89	12000
IL-8	2000 - 2.7	0.38	2000
PDGF-BB	3600 - 4.9	0.85	3600
TIMP-1	8400 - 11.5	8.60	8400
TIMP-2	18000 - 24.7	3.94	18000
TNF $\alpha$	4400 - 6.0	0.06	4400
VEGF	1600 - 2.2	0.52	1600

\* 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 50 µL 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

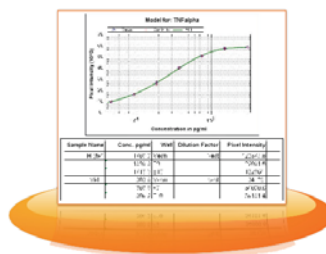
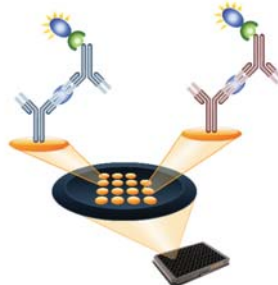
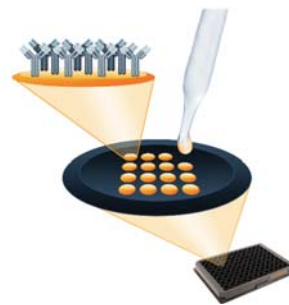
- ▶ An image of the plate is taken via a high resolution camera (Q-View Imager or approved gel doc system) or fluorescent scanner (LI-COR Odyssey)
- ▶ The image file (TIFF) is imported into Q-View Software and a Q-View Project is created

## 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



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## 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 deliver or customize the exact array you need.

## Q-View™ IMAGER

The Q-View Imager is a high quality, low-cost imaging system for chemiluminescent assay imaging.

## Q-View™ SOFTWARE

Q-View Software is a user friendly image analysis package 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 sample types from bioresearch. Increase productivity and focus on your core research while we test your samples for you.

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365 N 600 W • Logan, UT 84321 • Fax: 435-750-6869  
888-QUANSYS (782-6797) • [www.quansysbio.com](http://www.quansysbio.com)