

Q-Plex Pneumococcal Array

The Q-Plex Pneumococcal Array (14-plex) is a fully quantitative ELISA-based chemiluminescent assay allowing concurrent measurement of IgG antibody concentrations to 14 pneumococcal polysaccharide (PnPs) serotypes (1, 3, 4, 6B, 7F, 8, 9N, 9V, 12F, 14, 8C, 19A, 19F and 23F).

A kit contains a 96-well plate, with each well featuring the 14-plex along with a positive CPS control and a negative control along with all the other reagents necessary to perform the test. 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 14 markers in the panel in 2 hours. Q-Plex Arrays provide scientists with an easy-to-use and cost effective means of generating a Pneumococcal profile for each sample.



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

Pneumococcal Kit

Catalog # Product

480951HU Q-Plex™ Pneumococcal Array (14-plex)

Markers

1	7F	12F	19F
3	8	14	23F
4	9N	8C	
6B	9V	19A	

Product Range

PnPs	Top Point (µg/mL)	Low Point (µg/mL)
1	25.4	0.035
3	22.5	0.031
4	16.1	0.022
6B	68.0	0.093
7F	59.1	0.081
8	30.0	0.041
9N	35.6	0.049
9V	33.4	0.046
12F	16.9	0.023
14	52.2	0.072
18C	51.1	0.070
19A	127.2	0.175
19F	59.8	0.082
23F	32.8	0.045

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

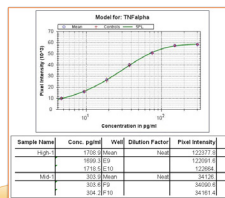
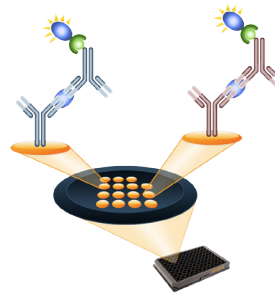
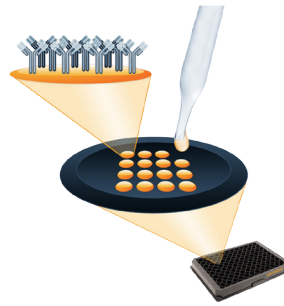
- ▶ An image of the plate is taken via a high resolution camera (Q-View Imager or approved gel doc system) or fluorescent scanner (LI-COR Odyssey)
- ▶ The image file (TIFF) is imported into Q-View Software and a Q-View Project is created

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 and Q-View Imager Pro 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.

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