

Q-Plex™ Mouse Cytokine HS Stripwells (16-Plex)

The Q-Plex™ Mouse Cytokine HS Stripwells (16-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing the concurrent measurement of sixteen biomarkers or analytes (GMCSF, IFN γ , IL-1 α , IL-1 β , IL-2, IL-3, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-17, MCP-1, MIP-1 α , RANTES, TNF α).

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 sixteen 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 μ L of sample per well, up to 80 samples can be assayed for all sixteen 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.

Mouse Chemiluminescent Kit

Catalog #	Product	GMCSF	IFN γ	IL-1 α	IL-1 β
110351MS	Q-Plex™ Mouse Cytokine HS Stripwells (16-Plex)	IL-2	IL-3	IL-4	IL-5
		IL-6	IL-10	IL-12p70	IL-17
		MCP-1	MIP-1 α	RANTES	TNF α

Product Range

Analytes	Units	Calibrator Range	LLD Limit
GMCSF	pg/mL	2000 - 2.74	2.30
IFN γ	pg/mL	8000 - 10.97	5.40
IL-1 α	pg/mL	5000 - 6.86	4.20
IL-1 β	pg/mL	14000 - 19.20	12.41
IL-2	pg/mL	5000 - 6.86	3.44
IL-3	pg/mL	5000 - 6.86	3.18
IL-4	pg/mL	5000 - 6.86	2.71
IL-5	pg/mL	5000 - 6.86	2.50
IL-6	pg/mL	5000 - 6.86	2.90
IL-10	pg/mL	2000 - 2.74	3.00
IL-12p70	pg/mL	12000 - 16.46	10.20
IL-17	pg/mL	10000 - 13.72	6.20
MCP - 1	pg/mL	3000 - 4.12	3.40
MIP-1 α	pg/mL	5000 - 6.86	0.61
RANTES	pg/mL	3000 - 4.12	2.15
TNF α	pg/mL	3000 - 4.12	3.40

* 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

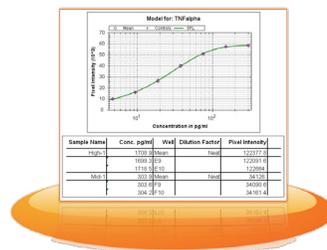
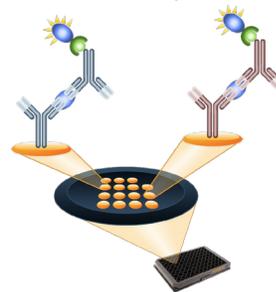
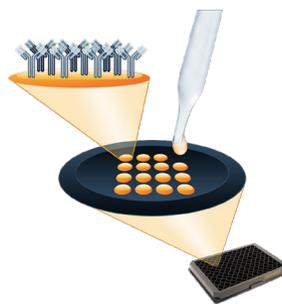
- ▶ An image of the plate is taken via a high resolution camera contained within the Q-View™ Imager LS

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.



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Quansys is an ISO 9001:2015 and ISO 13485:2016 registered company and complies with cGMP. Products are designed, developed, and manufactured according to the procedures outlined in our Quality Management System.

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