



**QUANSYS** BIOSCIENCES  
YOUR MULTIPLEX PARTNER

## Q-Plex™ Multiplex/Single ELISA Arrays

More Results From Each Precious Sample



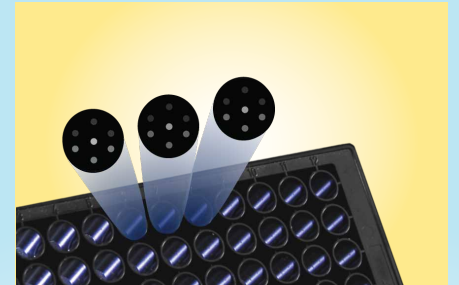
Established in 2005, Quansys Biosciences, Inc. is a Spendlove Research Foundation company. The Spendlove Research Foundation was created in 1989 through an endowment by Dr. Rex S. and Reta Spendlove. Dr. Spendlove is the founder of HyClone Laboratories, a leading provider of cell culture products throughout the world. Portions of the original HyClone business are now part of GE Healthcare and Thermo Fisher Scientific. Q-Plex™ Array is now available in Malaysia through Mbioscience Solutions Sdn Bhd.

### What is Q-Plex™ Array?

The Q-Plex™ Array Technology is a fully quantitative multiplex ELISA capable of measuring up to 25 distinct analytes per sample. Quantify cytokines, chemokines, hormones, and other common disease indicating proteins with custom or standard kits.

Each kit runs with a recommended 50 µl of sample being added to each well of a 96-well plate. Wells contain a defined array of capture microspots deposited (or printed) at the bottom of the well. Individual assays can be sandwich, competitive or indirect ELISA. Detection of the array is performed using a Q-View™ Imager or other alternative imaging systems. The image is processed and data is reported using the Q-View™ Software that comes with each kit.

- Measuring multiple analytes in each well gives you more data for your time and sample
- Fully quantitative results with low pg/mL sensitivity
- Most Q-Plex Arrays run in only 2-3 hours
- Easy-to-use protocol is similar to traditional ELISA making multiplexing simple and intuitive
- Lower price per data point than traditional ELISA and other multiplexing methods

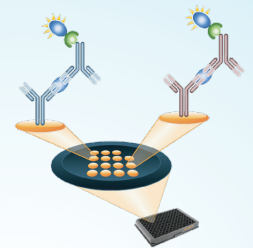


The Q-Plex™ Array is a fully quantitative ELISA-based test where distinct capture antibodies (up to 25) have been absorbed to each well of a 96-well plate in a defined array.

### Assay Procedure

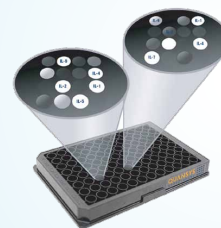
#### PERFORMING THE ASSAY

- Add 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

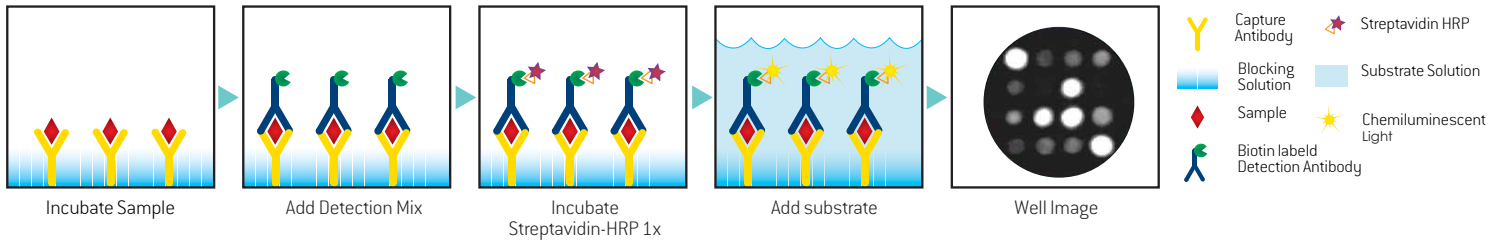
- An image of the plate is taken via a high resolution camera (Q-View Imager or approved gel doc system) or fluorescent scanner (LI-COR Odyssey)
- The image file (TIFF) is imported into Q-View Software and a Q-View Project is created



#### DATA ANALYSIS IN Q-VIEW

- Spots are automatically found on plate image
- Intensity of spot response is measured and raw data is generated
- Regression models used to calculate unknowns
- Standard curves are calculated and sample and statistical data is exported

## Q-Plex™ Assay Principle



## Q-Plex™ Multiple Array List

### Human

Product Description	Analytes	Cat #
Human Cytokine – Screen (16-plex)	IL-1α, IL-1β, IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12p70, IL-13, IL-15, IL-17, IL-23, IFNγ, TNFα, TNFβ	#110951HU
Human Cytokine – Stripwells (16-plex)	IL-1α, IL-1β, IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12p70, IL-13, IL-15, IL-17, IL-23, IFNγ, TNFα, TNFβ	#110351HU
Human Cytokine High Sensitivity Screen (15-Plex)	IL-1α, IL-1β, IL-2, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-13, IL-15, IL-17, IL-23, IFN-γ, TNF-α, TNF-β	#112451HU
Human Cytokine – Inflammation (9-plex)	IL-1α, IL-1β, IL-2, IL-4, IL-6, IL-8, IL-10, IFNγ, TNFα	#110451HU
Human Pneumococcal (14 Plex)	1, 3, 4, 6B, 7F, 8, 9N, 9V, 12F, 14, 8C, 19A, 19F, 23F	#480951HU
IL-1 Family Array (10 Plex)	IL-1α, IL-1β, IL-1ra, IL-18, IL-33, IL-18BPa, sIL-1 R1, sIL-1 R2, sIL-1 R3, sIL-1 R4	#118651HU
Human Angiogenesis (9-Plex)	ANG-2, FGF basic, HGF, IL-8, PDGF-BB, TIMP-1, TIMP-2, TNFα, VEGF	#150251HU
Human Chemokine (9-plex)	Eotaxin, GROα, I-309, IL-8, IP-10, MCP-1, MCP-2, RANTES, TARC	#120251HU
Human Female Hormone (8-Plex)	Adiponectin, Cortisol, C-Peptide, E1G, FSH, HCGb, IL-6, IL-10	#332151HU
Human MMP (5-plex)	MMP-2, MMP-3, MMP-7, MMP-9 and MMP-13	#340951HU

### Mouse

Product Description	Analytes	Cat #
Mouse Cytokine – Screen (16-Plex)	IL-1α, IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-17, MCP-1, IFNγ, TNFα, MIP-1α, GMCSF, RANTES	#110951MS
Mouse Cytokine Stripwells (16-Plex)	IL-1α, IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-17, MCP-1, IFNγ, TNFα, MIP-1α, GMCSF, RANTES	#110351MS
Mouse Cytokine – Inflammation (14-plex)	IL-1α, IL-1β, IL-2, IL-3, IL-4, IL-6, IL-10, IL-12p70, IL-17, MCP-1, TNFα, MIP-1α, GMCSF, RANTES	#110451MS

### Rat

Product Description	Analytes	Cat #
Rat Cytokine – Inflammation (9-Plex)	IL-1α, IL-1β, IL-2, IL-4, IL-6, IL-10, IL-12p70, IFN-γ, TNF-α	#110451RT

## Custom Q-Plex™ Multiplex Kits

### Can't find a suitable array?

Get a ready-to-use Q-Plex Array Kit with the markers of your choice in less than two weeks. Select a combination of up-to 25 of our prevalidated assays and we'll incorporate them into a unique custom kit. Each kit comes with a prespotted plate and all necessary buffers, reagents, and instructions for your specific multiplexed assays.



### Human Antibodies

Adiponectin	Ang-2	CD-14	CD-163	CD-26	Cortisol	C-Peptide	CRP
CTACK	CXCL-5	E1G	E2	Eotaxin	FasLigand	FGF	Fractalkine
FSH	GCSF	GMCSF	GROα	HCGβ	HGF	I-309	IFNα
IFNβ	IFNλ	IFNω	IFNγ	IL-1α	IL-1β	IL-1ra	IL-2
IL-4	IL-5	IL-6	IL-6R	IL-7	IL-8	IL-10	IL-12p40
IL-12p70	IL-13	IL-15	IL-16	IL-17	IL-21	IL-22	IL-23
IL-27	IP-10	MCP-1	MCP-2	MCP-3	MIG	MIP-1α	MIP-1β
MMP2	MMP3	MMP7	MMP9	MMP13	MPO	PDGF	PF-4
P-Selectin	RANTES	Resistin	S100A9	sFAS	TARC	TGFβ	TIMP-1
TIMP-2	TNFα	TNFβ	TNFR1	TNFR2	VEGF		

### Mouse Antibodies

Eotaxin	GMCSF	IFN-γ	IL-1α	IL-1β	IL-2	IL-3	IL-4
IL-5	IL-6	IL-10	IL-12	IL-13	IL-17	KC	MCP-1
MDC	MIP-1α	MIP-2	RANTES	TARC	TCA-3	TNFα	

### Rat Antibodies

IFNγ	IL-1α	IL-1β	IL-2	IL-4	IL-6	IL-10	IL-12p70
TNFα							