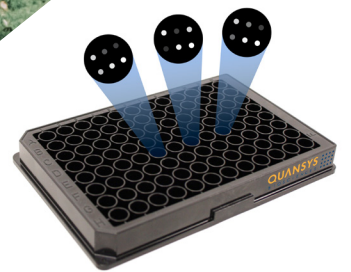


Q-PLEX™ BOVINE  
CYTOKINE  
PANEL 1  
(5-PLEX)



The Q-Plex™ Bovine Cytokine Panel 1 (5-Plex) is a fully quantitative plate-based multiplex ELISA for the detection of cytokines associated with inflammation.



## Background

The Q-Plex™ Bovine Cytokine Panel 1 (5-Plex) is a fully quantitative plate-based multiplex ELISA for the detection of cytokines associated with inflammation.

Production of inflammatory cytokines occurs normally to protect the host from pathogens, pain and wound healing, and growth signaling. However, excessive, or chronic production of inflammatory cytokines can damage host tissues and is associated with certain autoimmune diseases and cancers.

<b>Species Specificity</b>	Bovine
<b>Assay Type</b>	Sandwich
<b>Sample Type</b>	Serum, plasma, and cell culture supernatant
<b>Assay Length</b>	3.5 hours
<b>Volume Required Per Well</b>	Min. 25 µL
<b>Detection Method</b>	Chemiluminescent
<b>Multiplex Format</b>	96-well solid plate
<b>Catalog #</b>	112349BV

## Example Performance and Validation Data

Analyte	Assay Type	Calibrator Range	Upper Limit of Quantification (ULOQ)	Lower Limit of Quantification (LLOQ)	Limit of Detection	Precision* (Inter-assay)	Precision* (Intra-assay)	Average* Linearity
IFNγ	Sandwich	1,650 - 2.26 (pg/mL)	1,155 (pg/mL)	2.94 (pg/mL)	1.13 (pg/mL)	14.1%	4.9%	110%
IL-4	Sandwich	500 - 0.69 (pg/mL)	350 (pg/mL)	0.89 (pg/mL)	0.34 (pg/mL)	11.7%	3.0%	107%
IL-10	Sandwich	5,000 - 6.86 (pg/mL)	1,166 (pg/mL)	8.92 (pg/mL)	3.43 (pg/mL)	9.8%	3.0%	108%
IL-12p40	Sandwich	200,000 - 274 (pg/mL)	140,000 (pg/mL)	356 (pg/mL)	137 (pg/mL)	12.1%	6.8%	100%
TNFα	Sandwich	3,000 - 4.12 (pg/mL)	2,100 (pg/mL)	16.05 (pg/mL)	2.06 (pg/mL)	12.9%	4.5%	115%

\* Actual values may vary from kit to kit. Please see the In-Kit Certificate of Analysis included in your kit for specific values.



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