

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.

Species Specificity	Bovine
Assay Type	Sandwich
Sample Type	Serum, plasma, and cell culture supernatant
Assay Length	3.5 hours
Volume Required Per Well	Min. 25 µL
Detection Mention	Chemiluminescent
Multiplex Format	96-well solid plate
Catalog #	112333BV

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 - 2.94 (pg/mL)	1,155 (pg/mL)	2.94 (pg/mL)	1.47 (pg/mL)	14%	5%	109.64%
IL-4	Sandwich	500 - 0.89 (pg/mL)	350 (pg/mL)	0.89 (pg/mL)	0.45 (pg/mL)	12%	3%	106.97%
IL-10	Sandwich	5,000 - 8.92 (pg/mL)	1,166 (pg/mL)	8.92 (pg/mL)	4.46 (pg/mL)	10%	3%	108.37%
IL-12p40	Sandwich	200,000 - 365 (pg/mL)	140,000 (pg/mL)	365 (pg/mL)	178 (pg/mL)	12%	7%	99.93%
TNFα	Sandwich	3,000 - 16.05 (pg/mL)	2,100 (pg/mL)	16.05 (pg/mL)	8.03 (pg/mL)	13%	4%	114.68%



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