Q-Plex™ Human Pneumococcal IgG (9-Plex)



The Q-Plex™ Human Pneumococcal IgG (9-Plex) is a chemiluminescent multiplex ELISA run on a 96-well plate.

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Principle of the Assay

The Q-Plex™ Human Pneumococcal IgG (9-Plex) is a chemiluminescent multiplex ELISA run on a 96-well plates that measure antibody levels corresponding to the serotypes found in the Pneumovax®23 vaccine.

Antibodies play an essential role in the protection against pneumococcal disease. In humans, serum antibodies typically act against the polysaccharide capsule in a serotype specific manner. There are multiple vaccination options for protection against S. pneumoniae, with the major difference being the number and composition of specific serotypes present in the vaccine.

Performance and Validation Data

Sterotype	Assay Type	Calibrator Range	Effective Range High (DF 1:50)	Upper Limit of Quantification (ULOQ)	Lower Limit of Quantification (LLOQ)	Precision* (Inter-assay)	Precision* (Intra-assay)	Average Linearity (R2 Value)	Linearity Range Tested	Vaccines
2	Indirect	2.46 – 0.00060 (µg /mL)	123 – 0.030 (µg /mL)	2.21 (µg /mL)	0.0018 (µg /mL)	14.4%	9.1%	0.91	12.34 – 0.035 (µg /mL)	PPSV23
10A	Indirect	1.30 – 0.00032 (µg /mL)	65.00 – 0.016 (µg /mL)	1.19 (µg /mL)	0.00097 (µg /mL)	13.7%	13.8%	0.91	6.01 – 0.021 (µg /mL)	PCV20, PCV21, PPSV23
11A	Indirect	0.51 – 0.00012 (µg /mL)	25.50 – 0.0060 (µg /mL)	0.45 (µg /mL)	0.00013 (µg /mL)	17.8%	5.5%	0.94	2.35 – 0.0043 (µg /mL)	PCV20, PCV21, PPSV23
15B	Indirect	1.69 – 0.00041 (µg /mL)	84.50 – 0.021 (µg /mL)	1.55 (µg /mL)	0.0012 (µg /mL)	14.7%	6.8%	0.92	6.62 – 0.020 (µg /mL)	PCV20, PCV21, PPSV23
17F	Indirect	0.85 – 0.00021 (µg /mL)	42.50 – 0.016 (µg /mL)	0.74 (µg /mL)	0.00080 (µg /mL)	13.1%	9.8%	0.89	3.44 – 0.013 (µg /mL)	PCV21, PPSV23
19A	Indirect	1.39 – 0.00034 (µg /mL)	69.50 – 0.017 (µg /mL)	1.29 (µg /mL)	0.0046 (µg /mL)	16.6%	12.5%	0.86	8.38 – 0.25 (µg /mL)	PCV10 (SII), PCV13, PCV15, PCV20, PCV21, PPSV23
20	Indirect	1.05 – 0.00026 (µg /mL)	52.50 – 0.013 (µg /mL)	0.92 (µg /mL)	0.00075 (µg /mL)	15.5%	4.5%	0.99	3.81 – 0.014 (µg /mL)	PCV21 (as 20A), PPSV23 (as 20)
22F	Indirect	0.95 – 0.00023 (µg /mL)	47.50 – 0.00023 (µg /mL)	0.87 (µg /mL)	0.0028 (µg /mL)	14.8%	12.8%	0.92	4.40 – 0.031 (µg /mL)	PCV15, PCV20, PCV21, PPSV23
33F	Indirect	1.07 – 0.00026 (µg /mL)	53.50 – 0.013 (µg /mL)	0.95 (µg /mL)	0.00023 (µg /mL)	12.6%	4.6%	0.97	4.45 – 0.0096 (µg /mL)	PCV15, PCV20, PCV21, PPSV23

**Intra-assay and inter-assay precision are calculated with n=20 and n=10 replicates, respectively.*

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