

# 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

Serotype	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	Vaccines
2	Indirect	2.46 - 0.00060 (µg/mL)	0.434 (µg/mL)	0.00078 (µg/mL)	0.0003 (µg/mL)	10%	12%	101%	PNX
10A	Indirect	1.30 - 0.00021 (µg/mL)	0.57 (µg/mL)	0.00042 (µg/mL)	0.00016 (µg/mL)	7%	8%	106%	PNX, P20
11A	Indirect	0.51 - 0.00012 (µg/mL)	0.091 (µg/mL)	0.00016 (µg/mL)	0.000062 (µg/mL)	7%	8%	103%	PNX, P20
15B	Indirect	1.69 - 0.00041 (µg/mL)	0.294 (µg/mL)	0.00053 (µg/mL)	0.00021 (µg/mL)	9%	10%	105%	PNX, P20
17F	Indirect	0.85 - 0.00021 (µg/mL)	0.14 (µg/mL)	0.00108 (µg/mL)	0.00010 (µg/mL)	9%	8%	98%	PNX
19A	Indirect	1.39 - 0.00034 (µg/mL)	0.245 (µg/mL)	0.00182 (µg/mL)	0.00017 (µg/mL)	6%	6%	101%	PNX, P13, P20, V15
20	Indirect	1.05 - 0.00026 (µg/mL)	0.182 (µg/mL)	0.00034 (µg/mL)	0.00013 (µg/mL)	6%	6%	102%	PNX
22F	Indirect	0.95 - 0.00023 (µg/mL)	0.168 (µg/mL)	0.00121 (µg/mL)	0.00012 (µg/mL)	9%	12%	107%	PNX, P20, V15
33F	Indirect	1.07 - 0.00026 (µg/mL)	0.047 (µg/mL)	0.00034 (µg/mL)	0.00013 (µg/mL)	6%	6%	101%	PNX, P20, V15

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



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