MAYO CLINIC LABORATORIES

1-800-533-1710

Patient ID	Patient Name		Birth Date	Gender	Age
SA00136776	TESTINGRNV, PNTOR-REFLEX		1995-01-01	F	25
Order Number	**Client Order Number**	**Ordering Physician**	**Report Notes**		
SA00136776	SA00136776	CLIENT,CLIENT			
Account Information		**Collected**			
C7028846 DLMP Rochester		18 Sep 2020 00:00			

S. pneumoniae IgG Ab,23 serotypes,S

Serotype 1 (1)	SDL	**Serotype 19F (19)**	SDL
50.0 mcg/mL	**Reference Value** ≥2.3	50.0 mcg/mL	**Reference Value** ≥15.0
Serotype 2(2)	SDL	**Serotype 20 (20)**	SDL
50.0 mcg/mL	**Reference Value** ≥1.0	50.0 mcg/mL	**Reference Value** ≥1.3
Serotype 3 (3)	SDL	**Serotype 22F (22)**	SDL
50.0 mcg/mL	**Reference Value** ≥1.8	50.0 mcg/mL	**Reference Value** ≥7.2
Serotype 4 (4)	SDL	**Serotype 23F (23)**	SDL
50.0 mcg/mL	**Reference Value** ≥0.6	50.0 mcg/mL	**Reference Value** ≥8.0
Serotype 5 (5)	SDL	**Serotype 6B (26)**	SDL
50.0 mcg/mL	**Reference Value** ≥10.7	50.0 mcg/mL	**Reference Value** ≥4.7
Serotype 8 (8)	SDL	**Serotype 10A (34)**	SDL
50.0 mcg/mL	**Reference Value** ≥2.9	50.0 mcg/mL	**Reference Value** ≥2.9
Serotype 9N (9)	SDL	**Serotype 11A (43)**	SDL
50.0 mcg/mL	**Reference Value** ≥9.2	50.0 mcg/mL	**Reference Value** ≥2.4
Serotype 12F (12)	SDL	**Serotype 7F (51)**	SDL
50.0 mcg/mL	**Reference Value** ≥0.6	50.0 mcg/mL	**Reference Value** ≥3.2
Serotype 14 (14)	SDL	**Serotype 15B (54)**	SDL
50.0 mcg/mL	**Reference Value** ≥7.0	50.0 mcg/mL	**Reference Value** ≥3.3
Serotype 17F (17)	SDL	**Serotype 18C (56)**	SDL
50.0 mcg/mL	**Reference Value** ≥7.8	50.0 mcg/mL	**Reference Value** ≥3.3

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
SDL	Mayo Clinic Laboratories - Rochester Superior Drive	3050 Superior Drive NW, Rochester MN 55901	William G. Morice M.D. Ph.D	24D1040592

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SA00136776	TESTINGRNV, PNTOR-REFLEX		1995-01-01	F	25
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C7028846 DLMP Rochester		18 Sep 2020 00:00			

Serotype 19A (57) SDL

50.0 mcg/mL

Reference Value ≥17.1

Serotype 9V (68) SDL

50.0 mcg/mL

Reference Value ≥2.6

Serotype 33F (70) [1] SDL

50.0 mcg/mL

Reference Value ≥1.7

Either of the two following conditions would be consistent with a normal response to Streptococcus pneumoniae vaccination: Antibody concentrations greater than or equal to the reference value for at least 50% of serotypes in either a pre- or post-vaccination sample. Antibody concentrations increased by 2-fold or greater for at least 50% of serotypes when comparing the pre- to the post-vaccination results. Optimal cut-offs (reference values) were derived by measuring serotype-specific IgG antibody levels in an adult cohort of 100 healthy individuals (previously unvaccinated) before and after pneumococcal vaccination and identifying the antibody level for each serotype that included the largest number of individuals with a negative response (below cut-off) pre-vaccination and a positive response (above cut-off) post-vaccination.

ADDITIONAL INFORMATION

All 23 serotypes assessed by this assay are included in the Pneumovax 23 vaccine. IgG antibody concentrations following Pneumovax 23 administration are a reflection of an individual's humoral immune response to polysaccharide antigens. Serotypes 1, 3, 4, 5, 6A (6), 14, 19F (19), 23F (23), 6B (26), 7F (51), 18C (56), 19A (57) and 9V (68) are included in the Prevnar-13 conjugate vaccine. Antibody concentrations following Prevnar-13 administration are a reflection of an individual's response to protein-conjugated antigens. Serotypes 2, 8, 9N (9), 12F (12), 17F (17), 20, 22F (22), 10A (34), 11A (43), 15B (54) and 33F (70) are present only in the Pneumovax 23 vaccine and not in Prevnar-13. Responses to these 11 serotypes are a reflection of an individual's response to polysaccharide antigens. Serotype 6A is only present in Prevnar-13.

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S. pneumoniae IgG Ab, with reflex,S [1] SDL

50.0 mcg/mL

Reference Value ≥9.7

Interpretation: Consistent with intermediate pneumococcal vaccine response (41.0–180.9 mcg/mL). Testing for Streptococcus pneumoniae IgG Antibodies, 23 Serotypes, S (PN23) will be performed automatically.

Received: 18 Sep 2020 11:02 **Reported:** 18 Sep 2020 11:07

Laboratory Notes

[1] This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

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