

CO	COVID-19 Serology Testing Guidelines						
	IgG	IgM, IgA, IgG (Total)					
	Clinical use case and when to order this test:	Clinical use case and when to order this test:					
	Patient with symptoms of COVID-19 for more than 8 days,	Patient with symptoms of COVID-19 for more than 8					
	and two negative SARS-COV-2 PCR tests.	days, and two negative SARS-COV-2 PCR tests.					
	Interpreting the result:	Interpreting the result:					
	 Reported clinical sensitivity of 54%* at 8-14 days after 	• Reported clinical sensitivity 38%* 1-7 Days, 89%* 8-					
ent	symptom onset, and 79%* at 15-39 days after symptom	14 Days and 100%* 15-39 days per the literature so					
npatient	onset, meaning a negative result in the first month	negative result prior to 14 days does not rule out					
ם	does not rule out infection.	infection					
	• Specificity reported as 99.6% ⁺ from the manufacturer;	Negative result after 21 days of symptoms					
	consider a positive test evidence of infection and order	essentially rules out infection					
	COVID precautions if still having symptoms.	 Specificity 99.8%⁺ consider positive test result 					
		evidence of infection and order COVID precautions					
		<u>if still having symptoms.</u>					
	Clinical use case and when to order this test:	Clinical use case and when to order this test:					
	Patient with symptoms of COVID-19 for more than 8 days,	Patient with symptoms of COVID-19 for more than 8					
	in addition to or when unable to obtain COVID PCR Testing.	days, in addition to or when unable to obtain COVID PCR					
		Testing					
	Interpreting the result:	Interpreting the result:					
ent	 Reported clinical sensitivity of 54%* at 8-14 days after 	• Reported clinical sensitivity 38%* 1-7 Days, 89%* 8-					
Outpatient	symptom onset, and 79%* at 15-39 days after symptom	14 Days and 100%* 15-39 days per the literature so					
育	onset, meaning a negative result in the first month	negative result prior to 14 days does not rule out					
ō	does not rule out infection.	infection					
	• Specificity reported as 99.6% ⁺ from the manufacturer;	Negative result after 21 days of symptoms					
	consider a positive test evidence of infection and order	essentially rules out infection					
	COVID precautions if still having symptoms.	Specificity 99.8% ⁺ consider positive test result					
		evidence of infection and order COVID precautions					
		<u>if still having symptoms.</u>					

Serology Sensitivity as Reported by the Chinese Experience

(*referenced in dashboard guidelines)

*	Day 1 – 7	Day 8 - 14	Day 15 - 39
RNA	66.7	54.0	45.5
Total Ab	38.3	89.6	100.0
lgM	28.7	73.3	94.3
IgG	19.1	54.1	79.9
RNA + Ab	78.7	97.0	100.0

^{*}From Zhao, J, et al. Antibody responses to SARS-CoV-2 in patients of novel coronavirus disease 2019 medRxiv preprint doi:https://doi.org/10.11101/2020.03.02.20030189

Serology Specificity and Sensitivity as Reported by the Manufacturer

(*referenced in dashboard Guidelines)

Platform Antibody	Specificity	Sensitivity (<3 days)	Sensitivity (3-7 Days)	Sensitivity (8-13 Days)	Sensitivity (≥14 Days)
Abbott	99.63%	0.00%	25.00%	86.36%	100.00%
IgG					

Platform	Specificity	Sensitivity	Sensitivity	Sensitivity
Antibody		(0-6 Days)	(7 -13 Days)	(≥ 14 Days)
Roche IgM / IgA / IgG (total)	99. 81%	65.5%	88.1%	100%

Platform	Specificity	Sensitivity	Sensitivity	Sensitivity
Antibody		(0-6 Days)	(7 -13 Days)	(≥14 Days)
Siemens Centaur IgM / IgA / IgG (total)	99.81%	61.05%	97.50%	100%