

SARS-CoV-2 TESTING

Method: Molecular Standard PCR	Sensitivity	Specificity	Limit of Detection (LOD) copies/mL
Abbott M2000*	93%	100%	100 cp/mL
Hologic Panther Aptima*	97%	100%	125 cp/mL
DiaSorin Simplexa*	96%	98%	500 cp/mL
Abbott Alinity m*	100%	96%	100 cp/mL

1-15-2021 *Denotes tests currently performed at RML

Method: Molecular Rapid PCR or isothermal amplification	Sensitivity	Specificity	Limit of Detection (LOD)
Abbott ID NOW	73-80%	98-100%	125 genome equivalents/mL
Mesa Biotech Accula	53-81%	92-100%	150 cp/mL
SAMBA II	94-100%	90-99%	250 cp.mL
Cepheid XpertXpress	98-100%	92-99%	0.0200 PFU/mL PFU=plaque forming unit

<u>ALERT</u>: Specimens for Abbott's ID Now **MUST be tested within 1 hr of collection.** The ID NOW only has the ability to perform 3 tests per hr. Beyond 1 hr, the specimen MUST be recollected.

<u>NOTE</u>: Rapid tests should NOT be used to screen asymptomatic individuals. Sensitivity estimates for patients with a high viral load (generally 3-7 days after symptom onset) was 80-100% and lower for those with low viral loads, thus Negative results in highly suspicious patients should be retested with a non-rapid molecular test.

Method: Antigen Tests	Sensitivity	Specificity	Limit of Detection (LOD)
Abbott Binax Now Perform within 7 days of symptom onset	97%	98%	140.6 TCID₅₀/mL
Quidel Sofia Perform within 5 days of symptom onset	97%	100%	1.13 x10 ² TCID ₅₀ /mL

NOTE: These tests are NOT recommended for testing of asymptomatic individuals. Negative results are recommended to reflex to PCR testing.

Method: Antibody Test	Sensitivity (PPA on days post onset) Interpret with caution neg < 14 days onset	Specificity	LOD
Abbott IgG anti-SARS-CoV-2 Nucleocapsid IgG Antibody*	3-7 days post onset 50% 8-13 days post onset 91% ≧ 14 days 100%	99%	N/A