

COVID-19 Kits Comparison

2019-nCoV Rapid Test



COVID-19 RT-PCR Test



COVID-19 POC qPCR Test



PCR-Duo

	2019-nCoV Rapid Test	COVID-19 RT-PCR Test	COVID-19 POC qPCR Test
Sample Type	Whole blood/serum/plasma	Nasopharyngeal swab	Nasopharyngeal swab
Methodology	Colloidal gold immunochromatography	RT-PCR	Auto extraction and RT-PCR
Turn Around Time	10 – 15 min	About 3 Hours	60min
Test Target	IgG and IGM antibody caused by Covid-19 virus	SARS-CoV-2 RNA ORF1ab & Protein N	SARS-CoV-2, Flu A&B and RSV
Cost	Low	Medium	Higher
Operation	Easy; add sample and read result	Complicated; sample prepare, RNA extraction, RT-PCR	Easy; add sample and obtain result
Sensitivity	Confidence Interval 90%	300 Copies/mL	300 Copies/mL
Clinical significance	3-4 days after COVID-19 disease onset, screening.	Early diagnosis and confirm COVID-19	Early diagnosis and confirmation and distinguishes COVID-19 from other Flu viruses
Limit	Ab reaction not specific in some cases which may lead to false positive results.	Sampling and extraction may not get enough RNA to test so may get false negative results	Sample directly placed into test point of care; combines extraction and test in one cartridge giving less false negative results.
Storage	Room temperature	-15 ~-30°C	Room temperature