

Reaction System study

Sample processing time

Test enterprise reference product with Novel Coronavirus (2019-nCoV) Antigen Test Kit (Colloidal Gold). Choice 4 weakly positive samples, 2 Nasal swabs and 2 Throat swabs, record the test results after 0.5min, 1.0min 2.0min and 3.0min of the swab put into the Specimen extraction buffer. The test results are as follow:

Table 1: Test results of enterprise reference product under different specimen extraction time

Reaction time Specimen	0.5min	1.0min	2.0min	3.0min
P1- Nasal	Negative	Positive	Positive	Positive
P2- Nasal	Positive	Positive	Positive	Positive
P3- Throat	Negative	Positive	Positive	Positive
P4- Throat	Negative	Negative	Positive	Positive

According to test results from Table 1, when conduct the test with Novel Coronavirus (COVID-19) Antigen Test Kit (Colloidal Gold), test after 2.0 minutes sample processing will give the corrected results. That's the antigen which may contained in the sample will be extracted out in 2 minutes.

Reaction time

Test enterprise reference product with Novel Coronavirus (2019-nCoV) Antigen Test Kit (Colloidal Gold). record the test results in 5min, 10min 15min and 20min after adding specimen. The test results are as follow:

Table 2: Test results of enterprise reference product under different reaction time

Reaction time Specimen	5min	10min	15min	20min
G01	Negative	Negative	Positive	Positive
G03	Positive	Positive	Positive	Positive
G10	Positive	Positive	Positive	Positive
L01	Negative	Negative	Negative	Negative

According to test results from Table 14, when conduct the test with Novel Coronavirus (COVID-19) Antigen Test Kit (Colloidal Gold), test result read in 15-20min after adding specimen is valid, less 15min or more than 20min have an impact on test results.