# Clinical Validation report of Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (Swab)

**Product name:** Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (Swab)

**Package Specification:** 25 tests/kit

**Manufacturer:** Hangzhou Realy Tech Co., Ltd

**I. Clinical validation time**

This clinical evaluation was conducted from July 2020 to Aug 14th,2020.

**II. Background information for clinical evaluation**

Since December 2019, world has successively discovered multiple cases of patients with new-type coronavirus pneumonia. With the spread of the epidemic, China and abroad have also been found. As an acute respiratory infectious disease, the disease has been included in the Class B infectious diseases stipulated in the Law of the People's Republic of China on the Prevention and Control of Infectious Diseases, and is managed as a Class A infectious disease. Based on the current epidemiological investigation, the incubation period is 1-14 days, mostly 3-7 days.

The main manifestations are fever, dry cough, and fatigue. A few patients have symptoms such as nasal congestion, runny nose, sore throat, myalgia and diarrhea. Severe patients usually have dyspnea and / or hypoxemia one week after the onset of symptoms, and severe patients can quickly progress to acute respiratory distress syndrome, septic shock, difficult to correct metabolic acidosis, coagulation dysfunction and multiple organ Functional failure, etc. It is worth noting that in the course of severe and critically ill patients, there may be moderate to low fever, even without obvious fever.

Mild patients showed only low fever, mild fatigue, and no pneumonia. Judging from the current cases, most patients have a good prognosis, and a few patients are critically ill. The elderly and those with chronic underlying disease have a better prognosis. Symptoms in children are relatively mild.

The Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (Swab) developed by our company can help diagnose whether patients are infected with the Novel Coronavirus. It has further enriched the detection methods of Novel Coronavirus, expanded the supply of detection reagents, and fully served the needs of epidemic prevention and control.

**III. Test purposes**

The Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (Swab) produced by Hangzhou Realy Technology Co., Ltd. was used to verify the feasibility of clinical evaluation and the reliability of test results for Chinese subjects.

The purpose of research of the clinical test is to calculate the consistency percentage of negative/positive and the total consistency percentage and Kappa coefficient by statistically analyzing test results through comparative experimental research.

***IV. Test design***

**1. Test plan selection and reasons**

In vitro diagnostic reagents for testing and reference reagents were used to conduct comparative research tests on clinically suspected Novel Coronavirus Nasopharyngeal swab samples, and it was proved that the in vitro diagnostic reagents used in the test can achieve the expected assistance in infection of the Novel Coronavirus.

**2. Sample volume required**

The total number of clinical trials of this product is not less than 100 cases. The samples is classified into the positive group and the negative group as per the test results of the reference product. Meanwhile, the samples shall be tested via the qualitative test strip tested and by reference product from the same patient and then the test results of the product tested and the reference product shall be compared, with statistical analysis being made.

**3. Sample inclusion/exclusion certification.**

The positive group and negative group in this experiment are applicable to the following inclusion/exclusion criteria

**Positive group inclusion:**

PCR Test is positive;

CT test results and symptoms are clinically positive;

**Negative inclusion:**

PCR test is negative;

CT test results and symptoms are clinically negative;

**Sample collection, processing**

It is applicable to the diagnosis of the Novel coroinavirus from the samples of Nasopharyngeal swab.Use freshly collected samples for optimal test performance. Inadequate sample collection or improper sample handling may yield a false-negative result.

**Sample collection procedure:** Completely insert the sterilized swab supplied in this kit into the nasal basin, and swab several times to collect the epidermal cells of the mucus.

It is recommended to collect sample from Nasopharyngeal for more accurate results.

**Specimen preparation:**

1) Take out 1 bottle of Sample Extraction Buffer, remove the bottle cap, add all the extraction buffer into the extraction tube supplied in this kit, and put it on the tube stand.

2) Insert the swab into the extraction tube which contains Sample Extraction Buffer. Rotate the swab inside the tube using a circular motion to roll the side of the extraction tube so that liquid is expressed and reabsorbed from the swab, remove the swab. The extracted solution will be used as test sample.

**4. In vitro diagnostic reagents and reference products for testing**

**5.1 Test in vitro diagnostic reagents**

**Name:** The Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (Swab)

**Specification:**25 tests/kit

**REF:** K511416D

**LOT:** 202007046

**Expiry:** June,2022(Tentative)

**Storage Conditions:** Store in a dry place at 2-30°C, protected from light. After opening the inner package, the test card will become invalid due to moisture absorption. Please use it within 1 hour.

**Source:**Hangzhou Realy Tech Co.,Ltd

**5.2 Reference products**

**Name**: Novel Coronavirus(2019-nCoV) Nucleic Acid Diagnostic Kit (PCR-Fluorescence Probing)

**Manufacturer:** Sansure Biotech Inc.

**Limit of detection:** The limit of detection of this kit is 200 copies/mL

**Storage Conditions:** Store in a dry place at 2-8°C, protected from light.

**V. Experiment method**

1. Get the Swab specimens from patients in positive and negative groups.

2. Pre-process the swab samples according to the instructions of the The Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (Swab), and label the samples randomly.

2.1 Add 10 drops (about 0.3 ml) of the sample extraction buffer into the extraction tube.

2.2 Place the swab specimen in the SARS-Cov-2 antigen Buffer. Rotate the swab for approximately 10 seconds while pressing the head against the inside of the tube to release the antigen in the swab.

2.3 Remove the swab while squeezing the swab head against the inside of Buffer as you remove it to expel as much liquid as possible from the swab. Discard the swab in accordance with your biohazard waste disposal protocol.

2.4 Screw on and tighten the cap onto the specimen collection tube, then shake the specimen collection tube vigorously to mix the specimen and the Buffer. Place the test device on a clean and level surface.

3. The operation steps of the in vitro diagnostic reagents for the test are as follows. For details, please refer to the product instruction manual:

3.1 remove the test sample and required reagents from the storage conditions and equilibrate to room temperature (15-30°C).

3.2 When preparing for testing, open the aluminum foil bag from the tear. Remove the test card and lay it flat on a horizontal table.

3.3 Label the sample number on the test card.

3.4 Add 3 drops of the solution (approx.80ul) to the sample well and then start the timer.

3.5 Time counting and interpret the results within 10 minutes.

Note: The detection steps need to be completed under protection against infection.

**VI. Statistical methods of statistical analysis of clinical research data**

**A** Methods evaluating clinical performance

Whether various indexes can reach the standards of clinical evaluation shall be judged by calculating the consistency percentage of negative/positive and the total consistency percentage in the test results of the product tested and the reference product, to validate the accuracy and applicability of the product in clinical applications. The product tested shall be subject to tests through the sample of different types, with statistics on the results. Meanwhile,different types of sample of the subjects shall be subject to determination by the product tested synchronously, and then the determination results of both shall be compared. The test results recorded shall be subject to statistical analysis upon completion of determination of all clinical samples,to calculate the consistency percentage of negative/positive and the total consistency percentage. Afterwards, equivalence of both shall be evaluated as per these statistical indexes

**B Statistical method**

The products launched on the market shall be subject to comparative study and evaluation.Kappa inspection: each sample shall be tested with the product tested and the reference product respectively, and then the consistency in statistical results of these two inspection methods shall be compared through Kappa inspection.

The data shall be subject to Kappa inspection and analysis and the Kappa coefficient shall be calculated.Favorable consistency can be proven if Kappa is＞0.8. The consistency in test results of the product tested and the reference product is evaluated as per the evaluation standards.

**VII Standards of clinical evaluation**

The coincidence rate shall be calculated by comparing with the reference product whose marketing is approved. The product performance shall meet the following requirements.

1)Coincidence rate of negative: the sample whose test results are negative for both the product tested and the reference product and the proportion in the sample whose test results are negative for the reference product shall be more than 95%.

2)Coincidence rate of positive: the sample whose test results are positive for both the product tested and the reference product and the proportion in the sample whose test results are positive for the reference product shall be more than 85%.

3)Total coincidence rate: the sample whose test results are the same for the product tested and the reference product and its proportion in the total number of samples shall be more than 90%.

| Method | | 2019-nCoV nucleic acid test kit（RT-PCR） | | Total Results |
|---|---|---|---|---|
| The Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette(Swab) | Result | positive | negative | |
| | positive | A | B | A+B |
| | negative | C | D | C+D |
| Total Results | | A+C | B+D | A+B+C+D |

Clinical sensitivity =A/(A+C)*100%

Clinical specificity = D/(B+D)*100%

Accuracy: (A+D)/(A+B+C+D)*100%

If the coincidence rate of positive/negative can meet clinical requirements, two methods or Products are considered as equivalent; If the coincidence rate of positive/negative is greatly different, the clinical scheme should be re-designed.

4)Kappa consistency analysis shall be adopted for statistical analysis of reference reagents. The results of the product tested are statistical materials and can be per the table below:

| Method | 2019-nCoV nucleic acid | Total Results |
|---|---|---|

| | | test kit（RT-PCR） | | |
|---|---|---|---|---|
| The Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette(Swab) | Result | positive | negative | |
| | positive | A | B | A+B |
| | negative | C | D | C+D |
| Total Results | | A+C | B+D | A+B+C+D |

$P_{0=}$ (A+D)/(A+B+C+D)*100%

$P_e$=((A+B)(A+C) +(A+B)(B+D)) /(A+B+C+D)$^2$

Kappa:( $P_0$ - $P_e$)/(1-$p_e$)

If conducting Kappa consistency analysis for the base data above, high consistency can be judged if the Kappa coefficient is >0.8,and both systems are considered as equivalent. Consistency is considered if 0.4<Kappa coefficient <0.8, and the coincidence rate of positive/negative shall be compared, with statistical analysis being made. Two such systems are considered as inconsistent and in-equivalent if the Kappa coefficient is <0.4.

**VIII Provisions for amendments to clinical validation**

In general, the clinical validation should not be changed. Any modification to the project during the test should be explained, and the time,reason,process of change, and whether there is a record of the change are explained in detail and its impact on the evaluation of the entire research result is explained.

**IX. Results and Analysis of Clinical Tests**

In total, 659 test samples are included for the unit and all test samples included are tested. There are 201 positive test samples, among them, 55 test samples have Ct values >30.

| Days from diagnosis | Positive | Negative | Total Number Tested | Detectable rate |
|---|---|---|---|---|
| 0-3 | 160 | 0 | 160 | 100% |
| 4-7 | 19 | 2 | 21 | 90.48% |
| > 7 | 22 | 6 | 28 | 84.62% |
| Total | 201 | 8 | 209 | / |

Statistics on test results and those of the product tested are as follows:

| Method | | 2019-nCoV Nucleic Acid Test Kit (RT-PCR) | | Total Results |
|---|---|---|---|---|
| The Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (Swab) | Results | Positive | Negative | |
| | Positive | 201 | 0 | 201 |
| | Negative | 8 | 450 | 458 |
| Total Results | | 209 | 450 | 659 |

Clinical sensitivity = 201/209=96.17 % (95%CI* 92.51% to 98.17%)

Clinical specificity = 450/450>99.9% (95%CI* 98.98% to 100%)

Accuracy: (201+450)/ (201+0+8+450) *100%=98.79% (95%CI* 97.58% to 99.43%)

$P_e$= (209*450+458*201)/ (659*659) =0.57

Kappa:( $P_0$ - $P_e$)/(1-$p_e$) =0.97

*:95% confidence interview

According to the above table, 450 are proven negative of 450 negative specimens, 201 are proven positive of 209 positive specimens. The sensitivity and accuracy are more than 90%, indicating favorable consistency with the reference product. The Kappa=0.97>0.8,indicating favorable and high consistency of two methods and equivalence of two such systems.

**X Analysis on consistency in Test Results**

| Consistency result number | RdRP gene Ct/Cq value | | | N gene Ct/Cq value | | |
|---|---|---|---|---|---|---|
| | Maximum | Minimum | Median | Maximum | Minimum | Median |
| 201 | 34.86 | 14.01 | 22.9 | 35.46 | 14.01 | 23.09 |

According to the test result, there are 201 samples have the consistency results for rapid test and RT-PCR. For qualitative rapid test, the result will showed positive, negative and invalid, for RT-PCR detection, the Ct/Cq value will indicate the result, Ct/Cq value>40 means the detection result is negative, in our validation test, the amount of both RdRP and N gene Ct/Cq value are all below 40 is 201. The median of RdRP gene Ct/Cq value is 22.9, while the RdRP gene Ct/Cq value is 23.09.

**XI Analysis on Inconsistency in Test Results**

| NO. | Age | Gender | Rapid Test | Ct/Cq value (RT-PCR) | | Clinical diagnostic |
|---|---|---|---|---|---|---|
| | | | | RdRP | N gene | |
| 9 | 23 | F | Negative | > 40 | 34.38 | Infection 25 days |
| 49 | 30 | M | Negative | > 40 | 31.74 | Infection 16 days |
| 72 | 39 | M | Negative | 34.76 | > 40 | Infection 28 days |
| 80 | 28 | M | Negative | 30.62 | 31.23 | Infection 31 days |
| 105 | 58 | F | Negative | > 40 | 35.27 | Infection 19 days |
| 147 | 52 | M | Negative | > 40 | 31.37 | Infection 22 days |
| 154 | 16 | F | Negative | > 40 | 35.01 | Infection 7* days |
| 209 | 67 | F | Negative | 32.60 | 33.25 | Infection 5* days |

*There are two mistakes when we checked the sample information again, the true days from diagnose for sample 154 and sample 209 are 7 and 5 days.

**XII Discussion and Conclusions**

**1.discussion**

**A** Results of comparative analysis of the product tested and the reference product:

Test results of Swab specimen tested and the reference result: both the coincidence rate of negative/positive and the total coincidence rate are larger than 85%, indicating favorable consistency with the reference product. In the analysis results of Kappa inspection, Kappa was proven >0.8, indicating favorable and high consistency of both methods. Both systems were proven equivalent.

**2.Test conclusions**

By analyzing the test results of the product tested and the reference product, the consistency percentage of negative/positive and the total consistency percentage are proven high. Moreover, according to the results of statistical analysis, there is no remarkable difference in test results of

both, indicating favorable consistency in diagnosis and equivalence of two such systems and can be used for auxiliary diagnosis of those suffering from pneumonia triggered by COVID-19.

**XIII. Quality control methods**

On-site quality control

1）During the course of this study, clinical implementors appointed clinical inspectors to conduct regular on-site supervision visits to the research hospital. Through monitoring visits, it was found that all the contents of the research plan were strictly observed, and the correctness of the research data was also guaranteed. Participating researchers have undergone unified training, unified recording methods and judgment standards. The entire clinical trial process is conducted under strict operation, and the test content is complete and authentic. All observations and findings in the clinical trials have been verified and the data are reliable. The conclusions in the clinical trials are derived from the original data.

2）Quality control of clinical experiment process

During the evaluation, quality control was performed daily to ensure that the product was under control. Strict quality control is performed for each trial to ensure the quality of clinical trials.

**XIV. Prediction of adverse events**

Because the Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (Swab) is an in vitro diagnostic reagent product, no direct contact with patients is required in clinical trials, no test report is provided to patients, and the test results are only used for comparative studies. It involves personal privacy, does not serve as a basis for auxiliary diagnosis, does not bring any risk to the subject, and does not cause adverse events.

**References:**

1.The "Technical Review Points for the Registration of New Coronavirus Antigen / Antibody Detection Reagents in 2019 (Trial)" issued by the State Drug Administration Medical Device Technical Evaluation Center on February 25, 2020;

2. "Pneumonitis Diagnosis and Treatment Program for New Coronavirus Infection (Trial Version 7)" issued by the National Health Committee on February 19, 2020.

Annex I:Package Insert

# Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (swab) Package Insert

**A RAPID TEST FOR THE QUALITATIVE DETECTION OF NOVEL CORONAVIRUS ANTIGENS IN NASOPHARYNGEAL SWAB AND OROPHARYNGEAL SWAB.**
**For professional In Vitro Diagnostic Use Only.**

## INTENDED USE

The Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (swab) is an *in vitro* diagnostic test for the qualitative detection of novel coronavirus antigens in Nasopharyngeal swab and Oropharyngeal swab, using the rapid immunochromatographic method. The identification is based on the monoclonal antibodies specific for the novel coronavirus antigen. It will provide information for clinical doctors to prescribe correct medications.

## SUMMARY

COVID-19 is an acute respiratory infectious disease. People are generally susceptible. Currently, the patients infected by the novel coronavirus are the main source of infection; asymptomatic infected people can also be an infectious source. Based on the current epidemiological investigation, the incubation period is 1 to 14 days, mostly 3 to 7 days. The main manifestations include fever, fatigue and dry cough. Nasal congestion, runny nose, sore throat, myalgia and diarrhea are found in a few cases.

## PRINCIPLE

The Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (swab) is an immunochromatographic membrane assay that uses highly sensitive monoclonal antibodies to Novel coronavirus.
The test device is composed of the following three parts, namely sample pad, reagent pad and reaction membrane. The whole strip is fixed inside a plastic device. The reagent membrane contains the colloidal-gold conjugated with the monoclonal antibodies against Novel coronavirus,the reaction membrane contains the secondary antibodies for Novel coronavirus, and the polyclonal antibodies against the mouse globulin, which are pre-immobilized on the membrane.
When the sample is added into the sample window,conjugates dried in the reagent pad are dissolved and migrate along with the sample. If Novel coronavirus is present in the sample, a complex formed between the anti- Novel coronavirus conjugate and the virus will be caught by the specific anti- Novel coronavirus monoclonal coated on the T region.
Whether the sample contains the virus or not, the solution continues to migrate to encounter another reagent (an anti-mouse IgG antibody) that binds the remaining conjugates, thereby producing a red line on the region C.

## REAGENTS

The reagent membrane contains the colloidal-gold conjugated with the monoclonal antibodies against Novel coronavirus, the reaction membrane contains the secondary antibodies for Novel coronavirus,and the polyclonal antibodies against the mouse globulin, which are pre-immobilized on the membrane.

## PRECAUTIONS

- For *in vitro* diagnostic use only.
- Do not use after the expiration date.
- Ensure foil pouch containing test device is not damaged before opening for use.
- Perform test at room temperature 15 to 30℃.
- Wear gloves when handling the samples, avoid touching the reagent membrane and sample window.
- All samples and used accessories should be treated as infectious and discarded according to local regulations.
- Avoid using bloody samples.

## STORAGE AND STABILITY

Store the Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (swab) at room temperature or refrigerated (2-30°C). Do not freeze. All reagents are stable until the expiration dates marked on their outer packaging and buffer vial.

## SPECIMEN COLLECTION AND PREPARATION

**1. Specimen collection:**
It is applicable to the diagnosis of the Novel coronavirus from the samples of Nasopharyngeal swab.Use freshly collected samples for optimal test performance. Inadequate sample collection or improper sample handling may yield a false-negative result.

**For nasopharyngeal swab** completely insert the sterilized swab supplied in this kit into the nasal basin, and swab several times to collect the epidermal cells of the mucus.
**For oropharyngeal swab** completely insert the sterilized swab supplied in this kit into the posterior pharynx, tonsils and other inflamed areas. Avoid touching the tongue, cheeks and teeth with the swab.
**It is recommended to collect sample from Nasopharyngeal for more accurate results.**
**2. Specimen preparation:**
1) Take out 1 bottle of Sample Extraction Buffer, remove the bottle cap, add all the extraction buffer into the extraction tube.
2) **Nasopharyngeal and oropharyngeal Swabbing**
Insert the swab into the extraction tube which contains Sample Extraction Buffer. Rotate the swab inside the tube using a circular motion to roll the side of the extraction tube so that liquid is expressed and reabsorbed from the swab, remove the swab. The extracted solution will be used as test sample.

## MATERIALS

**Materials provided**

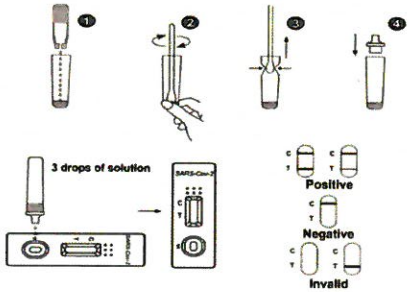
- Test Device
- Sterilized Swab
- Extraction Tube
- Package Insert
- Nozzle with Filter
- Sample Extraction Buffer
- Tube Stand

**Materials required but not provided**

- Timer

## DIRECTIONS FOR USE

**Allow the test, specimen, extraction buffer to equilibrate to room temperature (15-30°C) prior to testing.**
1.Remove the test device from the sealed foil pouch and use it as soon as possible. Place the test device on a clean and level surface. Best results will be obtained if the assay is performed immediately after opening the foil pouch.
2. Unscrew the white cap of the specimen collection tube.
3. Take out 1 bottle of Sample Extraction Buffer, remove the bottle cap, add all the extraction buffer into the extraction tube.
4.Place the sterilized swab specimen in the sample extraction buffer. Rotate the swab for approximately 10 seconds while pressing the head against the inside of the tube to release the antigen in the swab.
5.Remove the sterilized swab while squeezing the sterilized swab head against the inside of Buffer as you remove it to expel as much liquid as possible from the swab. Discard the sterilized swab in accordance with your biohazard waste disposal protocol.
6. Screw on and tighten the cap onto the specimen collection tube, then **shake the specimen collection tube vigorously** to mix the specimen and the sample extraction buffer. See illustration 4.
7.Add 3 drops of the solution (approx 80ul) to the sample well and then start the timer. Read the result at 10-20 minutes. Don't interpret the result after 20 minutes.




## INTERPRETATION OF RESULTS

(Please refer to the illustration above)
**POSITIVE:** Two red lines appear. One red line appears in the control region(C), and one red line in the test region(T). The shade of color may vary, but it should be considered positive whenever there is even a faint line.
**NEGATIVE:** Only one red line appears in the control region(C), and no line in the test region(T). The negative result indicates that there are no Novel coronavirus particles in the sample or the number of viral particles is below the detectable range.
**INVALID:** No red line appears in the control region(C). The test is invalid even if there is a line on test region(T). Insufficient sample volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the test procedure and repeat the test using a new test device. If the problem persists, discontinue using the test kit immediately and contact your local distributor.

## LIMITATIONS

- The Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (swab) is an acute-phase screening test for qualitative detection. Sample collected may contain antigen concentration below the reagent's sensitivity threshold, so a negative test result does not exclude infection with novel coronavirus.
- The Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (swab) detects viable and non-viable novel coronavirus antigen. Test performance depends on antigen load in the sample and may not correlate with cell culture performed on the same sample. A positive test does not rule out the possibility that other pathogens may be present, therefore, the results must be compared with all other available clinical and laboratory information to make an accurate diagnosis.
- A negative test result may occur if the level of extracted antigen in a specimen is below the sensitivity of the test or if poor quality specimen is obtained.
- Performance of the test has not been established for monitoring antiviral treatment of novel coronavirus.
- Positive test results do not rule out co-infections with other pathogens.
- Negative test results are not intended to rule in other coronavirus infection except the SARS-Cov-2.
- Children tend to shed virus for longer periods of time than adults, which may result in differences in sensitivity between adults and children List.
- A negative result may occur if the concentration of antigen in a specimen is below the detection limit of the test or if the specimen was collected or transported improperly, therefore a negative test result does not eliminate the possibility of SARS-Cov-2 infection, and should be confirmed by viral culture or PCR.

## PERFORMANCE CHARACTERISTICS

**Clinical Evaluation**

Clinical evaluation was performed to compare the results obtained by Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (swab) and PCR. The results were summarized below:

Table: Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (swab) vs. PCR

| Method | | 2019-nCoV Nucleic Acid Test Kit (RT-PCR) | | Total Results |
|---|---|---|---|---|
| | Results | Positive | Negative | |
| The Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (Swab) | Positive | 201 | 0 | 201 |
| | Negative | 8 | 450 | 458 |
| Total Results | | 209 | 450 | 659 |

Clinical sensitivity = 201/209=96.17 % (95%CI* 92.51% to 98.17%)
Clinical specificity = 450/450 >99.9% (95%CI* 98.98% to 100%)
Accuracy: (201+450)/ (201+0+8+450) *100%=98.79% (95%CI* 97.58% to 99.43%)
*Confidence Interval

**Limit of Detection (LoD)**

| 2019-nCoV Strain Tested | Reagy Tech product | | | | |
|---|---|---|---|---|---|
| Stock 2019-nCoV Concentration | $1 \times 10^6$ $TCID_{50}$/mL | | | | |
| Dilution | 1/100 | 1/200 | 1/400 | 1/800 | 1/1600 |
| Concentration in Dilution tested ($TCID_{50}$/ml) | $6X10^4$ | $5X10^4$ | $2.5\times10^4$ | $1.25X10^4$ | $6.25X10^3$ |
| Call rates of 20 replicates near cut-off | 100(20/20) | 100(20/20) | 100(20/20) | 95(19/20) | 10(2/20) |
| Limit of detection (LoD) per Virus Strain | $1.25 \times 10^4$ $TCID_{50}$/mL | | | | |

**Cross Reaction**

The test results are below the corresponding concentration of the substances in the table below, which has no effect on the negative and positive test results of this reagent, and there is no cross-reaction.

| Virus/Bacteria/Parasite | Strain | Concentration |
|---|---|---|
| MERS-coronavirus | N/A | 72 μg/mL |
| Adenovirus | Type 1 | $1.5 \times 10^6$ $TCID_{50}$/mL |
| | Type 3 | $7.5 \times 10^5$ $TCID_{50}$/mL |
| | Type 5 | $4.5 \times 10^5$ $TCID_{50}$/mL |
| | Type 7 | $1.0 \times 10^6$ $TCID_{50}$/mL |
| | Type 8 | $1.0 \times 10^6$ $TCID_{50}$/mL |
| | Type 11 | $2.5 \times 10^5$ $TCID_{50}$/mL |
| | Type 18 | $2.5 \times 10^5$ $TCID_{50}$/mL |
| | Type 23 | $6.0 \times 10^5$ $TCID_{50}$/mL |
| | Type 55 | $1.5 \times 10^5$ $TCID_{50}$/mL |
| Influenza A | H1N1 Denver | $3.0 \times 10^5$ $TCID_{50}$/mL |
| | H1N1 WS/33 | $2.0 \times 10^5$ $TCID_{50}$/mL |
| | H1N1 A/Mal/302/54 | $1.5 \times 10^5$ $TCID_{50}$/mL |
| | H1N1 New Caledonia | $7.6 \times 10^5$ $TCID_{50}$/mL |
| | H3N2 A/Hong Kong/8/68 | $4.6 \times 10^5$ $TCID_{50}$/mL |
| Influenza B | Nevada/03/2011 | $1.5 \times 10^5$ $TCID_{50}$/mL |
| | B/Lee/40 | $8.5 \times 10^5$ $TCID_{50}$/mL |
| | B/Taiwan/2/62 | $4.0 \times 10^5$ $TCID_{50}$/mL |
| Respiratory syncytial virus | N/A | $2.5 \times 10^5$ $TCID_{50}$/mL |
| Legionella pneumophila | Bloomington-2 | $1 \times 10^6$ PFU/mL |
| | Los Angeles-1 | $1 \times 10^6$ PFU/mL |
| | 82A3105 | $1 \times 10^6$ PFU/mL |
| Rhinovirus A16 | N/A | $1.5 \times 10^5$ $TCID_{50}$/mL |
| Mycobacterium tuberculosis | K | $1 \times 10^5$ PFU/mL |
| | Erdman | $1 \times 10^5$ PFU/mL |
| | HN878 | $1 \times 10^5$ PFU/mL |
| | CDC1551 | $1 \times 10^5$ PFU/mL |
| | H37Rv | $1 \times 10^5$ PFU/mL |
| Streptococcus pneumonia | 4752-98 [Maryland (D)6B-17] | $1 \times 10^5$ PFU/mL |
| | 178 [Poland 23F-18] | $1 \times 10^5$ PFU/mL |
| | 282 [CIP 104340] | $1 \times 10^5$ PFU/mL |
| | Slovakia 14-10 [29055] | $1 \times 10^5$ PFU/mL |

| | | |
|---|---|---|
| Streptococcus pyrogens | Typing strain T1 [NCIB 11841, SF 130] | 1 x $10^5$PFU/ml |
| Mycoplasma pneumoniae | Mutant 22 | 1 x $10^5$PFU/ml |
| | FHstrainetEatonAgent [NCTC 10119] | 1 x $10^5$PFU/ml |
| | 36M129-B7 | 1 x $10^5$PFU/ml |
| Coronavirus | 229E | 1.5 x $10^6$$TCID_{50}$/ml |
| | OC43 | 1.5 x $10^6$$TCID_{50}$/ml |
| | NL63 | 1.5 x $10^6$$TCID_{50}$/ml |
| | HKU1 | 1.5 x $10^6$$TCID_{50}$/ml |
| Human etapneumovirus (hMPV) 3 Type B1 | Peru2-2002 | 1.5 x $10^6$$TCID_{50}$/ml |
| Human Metapneumovirus (hMPV) 16 Type A1 | IA10-2003 | 1.5 x $10^6$$TCID_{50}$/ml |
| Parainfluenza virus | Type 1 | 1.5 x 106$TCID_{50}$/ml |
| | Type 2 | 1.5 x 106$TCID_{50}$/ml |
| | Type 3 | 1.5 x 106$TCID_{50}$/ml |
| | Type 4A | 1.5 x 106$TCID_{50}$/ml |

**Interfering Substances Reaction**

When tested using the Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Cassette (swab), there was no interference between the device reagents and the Potential interference substances listed in below table that would create false positive or negative results for SARS-Cov-2 antigen

| Substance | Concentration | Substance | Concentration |
|---|---|---|---|
| Mucin | 100μg/mL | Acetylsalicylic acid | 3.0 mM |
| Whole Blood | 5% (v/v) | Ibuprofen | 2.5 mM |
| Biotin | 100μg/mL | Mupirocin | 10 mg/mL |
| Neo-Synephrine (Phenylephrine) | 5%(v/v) | Tobramycin | 10μg/mL |
| Afrin Nasal Spray (Oxymetazoline) | 5%(v/v) | Erythromycin | 50uM |
| Saline Nasal Spray | 5%(v/v) | Ciprofloxacin | 50uM |
| Homeopathic | 5%(v/v) | Ceftriaxone | 110mg/mL |
| Sodium Cromoglycate | 10 mg/mL | Meropenem | 3.7μg/mL |
| Diopetadine Hydrochloride | 10 mg/mL | Tobramycin | 100μg/mL |
| Zanamivir | 5 mg/mL | Histamine Hydrochloride | 100μg/mL |
| Oseltamivir | 10 mg/mL | Peramivir | 1mmol/mL |
| Artemether-lumefantrine | 50uM | Flunisolide | 100μg/mL |
| Doxycycline hyclate | 50uM | Budesonide | 0.64nmol/ L |
| Quinine | 150uM | Fluticasone | 0.3ng/mL |
| Lamivudine | 1 mg/mL | Lopinavir | 8μg/mL |
| Ribavirin | 1 mg/mL | Ritonavir | 8.2mg/mL |
| Daclatasvir | 1 mg/mL | Abidor | 417.8ng/mL |
| Acetaminophen | 150uM | Pooled human nasal wash | N/A |

| SYMBOLS | | | |
|---|---|---|---|
| **Symbol** | **Meaning** | **Symbol** | **Meaning** |
| IVD | In vitro diagnostic medical device | | Storage temperature limit |
| | Manufacturer | EC REP | Authorized representative in the European Community |
| | Date of Manufacture | | Use by date |
| | Do not reuse | | Consult instruction foe use |
| LOT | Batch code | CE | Meet the requirements of EC Directive 98/79/EC |

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EC REP **Luxus Lebenswelt GmbH**
Kochstr.1,47877, Willich, Germany

CE

Number:1101381601
Version:1.6031
Effective Date:2020-10-07

**Annex II: Information of sample**

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 1 | 49 | F | 1 | Positive | 16.29 | 15.96 |
| 2 | 32 | F | 2 | Positive | 14.97 | 14.97 |
| 3 | 31 | F | 1 | Positive | 27.24 | 27.78 |
| 4 | 32 | F | 2 | Positive | 17.74 | 17.56 |
| 5 | 21 | F | 3 | Positive | 21.38 | 21.17 |
| 6 | 51 | M | 0 | Positive | 15.43 | 15.74 |
| 7 | 22 | F | 25 | Positive | 26.73 | 27 |
| 8 | 46 | F | 1 | Positive | 21.21 | 20.79 |
| 9 | 23 | F | 25 | Negative | >40 | 34.38 |
| 10 | 14 | M | 3 | positive | 22.65 | 23.1 |
| 11 | 42 | M | 3 | Positive | 23.85 | 24.33 |
| 12 | 51 | M | 3 | Positive | 14.65 | 14.8 |
| 13 | 80 | M | 2 | Positive | 31.24 | 30.93 |
| 14 | 39 | F | 3 | Positive | 22.94 | 22.71 |
| 15 | 67 | M | 9 | Positive | 31.87 | 31.55 |
| 16 | 44 | M | 1 | positive | 14.73 | 14.58 |
| 17 | 26 | F | 20 | Positive | 34.65 | 34.65 |
| 18 | 33 | F | 1 | positive | 14.25 | 14.39 |
| 19 | 38 | F | 12 | Positive | 31.76 | 31.44 |
| 20 | 36 | F | 1 | Positive | 24.09 | 24.57 |
| 21 | 3 | F | 5 | Positive | 27.34 | 26.79 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 22 | 35 | F | 2 | Positive | 27.93 | 27.37 |
| 23 | 23 | F | 0 | Positive | 19.24 | 19.43 |
| 24 | 43 | M | 0 | Positive | 26.5 | 26.77 |
| 25 | 43 | F | 23 | Positive | 27.18 | 26.91 |
| 26 | 46 | F | 13 | Positive | 16.59 | 16.92 |
| 27 | 55 | F | 3 | Positive | 19.39 | 19.39 |
| 28 | 22 | F | 0 | Positive | 26.2 | 25.94 |
| 29 | 20 | M | 3 | positive | 25.84 | 26.1 |
| 30 | 42 | M | 3 | Positive | 24.93 | 25.18 |
| 31 | 56 | F | 0 | Positive | 27.01 | 27.01 |
| 32 | 55 | M | 1 | Positive | 30.84 | 30.22 |
| 33 | 26 | F | 1 | Positive | 16.97 | 16.8 |
| 34 | 54 | M | 10 | Positive | 25.68 | 25.68 |
| 35 | 43 | F | 2 | Positive | 27.18 | 27.45 |
| 36 | 69 | M | 1 | Positive | 20.14 | 19.74 |
| 37 | 36 | M | 7 | Positive | 23.49 | 23.49 |
| 38 | 37 | F | 0 | Positive | 17.33 | 17.68 |
| 39 | 44 | F | 0 | Positive | 17.97 | 17.79 |
| 40 | 43 | F | 2 | Positive | 24.64 | 24.15 |
| 41 | 67 | F | 3 | Positive | 18.43 | 18.25 |
| 42 | 51 | F | 1 | Positive | 16.69 | 16.52 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 43 | 75 | F | 1 | Positive | 28.64 | 28.35 |
| 44 | 60 | F | 2 | Positive | 21.03 | 21.45 |
| 45 | 25 | M | 3 | Positive | 32.88 | 32.55 |
| 46 | 75 | F | 1 | Positive | 16.82 | 17.16 |
| 47 | 43 | F | 5 | Positive | 18.66 | 19.03 |
| 48 | 30 | F | 1 | Positive | 15.27 | 15.12 |
| 49 | 30 | M | 16 | Negative | >40 | 31.74 |
| 50 | 26 | F | 3 | Positive | 32.61 | 32.94 |
| 51 | 32 | F | 1 | Positive | 24.58 | 24.09 |
| 52 | 73 | M | 1 | Positive | 18.93 | 19.31 |
| 53 | 58 | F | 2 | Positive | 22.91 | 23.14 |
| 54 | 66 | F | 1 | Positive | 33.03 | 33.03 |
| 55 | 29 | F | 3 | Positive | 17.96 | 17.78 |
| 56 | 56 | M | 3 | Positive | 31.67 | 32.3 |
| 57 | 24 | M | 29 | Positive | 21.89 | 21.67 |
| 58 | 36 | M | 2 | Positive | 20.6 | 20.19 |
| 59 | 70 | F | 2 | Positive | 16.65 | 16.82 |
| 60 | 45 | M | 7 | Positive | 24.93 | 24.68 |
| 61 | 38 | F | 3 | Positive | 34.76 | 35.46 |
| 62 | 42 | M | 1 | Positive | 32.69 | 32.04 |
| 63 | 55 | M | 0 | Positive | 20.86 | 21.28 |
| 64 | 33 | M | 0 | Positive | 21.06 | 20.64 |
| 65 | 39 | M | 1 | Positive | 24.32 | 24.08 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 66 | 58 | F | 0 | Positive | 32.1 | 32.74 |
| 67 | 20 | F | 0 | Positive | 25.63 | 25.89 |
| 68 | 42 | M | 2 | Positive | 22.68 | 22.23 |
| 69 | 27 | F | 1 | Positive | 18.19 | 18.37 |
| 70 | 49 | M | 2 | Positive | 20.6 | 20.39 |
| 71 | 49 | M | 1 | positive | 27.64 | 27.09 |
| 72 | 39 | M | 28 | Negative | 34.76 | >40 |
| 73 | 17 | F | 7 | Positive | 33.24 | 33.24 |
| 74 | 60 | M | 4 | Positive | 15.18 | 15.18 |
| 75 | 44 | M | 0 | Positive | 16.69 | 17.02 |
| 76 | 49 | F | 2 | Positive | 17.87 | 18.05 |
| 77 | 11 | M | 0 | Positive | 26.19 | 25.93 |
| 78 | 32 | M | 3 | positive | 17.71 | 17.53 |
| 79 | 51 | F | 1 | Positive | 24.06 | 24.54 |
| 80 | 28 | M | 31 | Negative | 30.62 | 31.23 |
| 81 | 31 | F | 3 | Positive | 19.68 | 20.07 |
| 82 | 50 | M | 0 | Positive | 14.45 | 14.31 |
| 83 | 47 | M | 28 | Positive | 19.49 | 19.68 |
| 84 | 44 | F | 2 | Positive | 20.43 | 20.23 |
| 85 | 10 | F | 26 | Positive | 14.25 | 14.25 |
| 86 | 24 | M | 15 | Positive | 19.84 | 19.44 |
| 87 | 22 | F | 5 | Positive | 23.15 | 22.92 |
| 88 | 47 | F | 1 | Positive | 32.18 | 32.5 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 89 | 26 | M | 1 | Positive | 17.3 | 16.95 |
| 90 | 43 | F | 2 | Positive | 33.26 | 32.59 |
| 91 | 55 | M | 7 | Positive | 14.83 | 15.13 |
| 92 | 50 | F | 0 | Positive | 16.85 | 17.02 |
| 93 | 26 | M | 3 | Positive | 25.72 | 25.72 |
| 94 | 51 | F | 2 | Positive | 19.19 | 19.57 |
| 95 | 20 | F | 0 | Positive | 23.4 | 23.63 |
| 96 | 44 | M | 7 | Positive | 31.19 | 31.81 |
| 97 | 38 | F | 1 | Positive | 34.86 | 34.51 |
| 98 | 38 | F | 20 | Positive | 17.09 | 17.09 |
| 99 | 39 | M | 2 | Positive | 29.32 | 28.73 |
| 100 | 30 | F | 2 | Positive | 27.24 | 27.24 |
| 101 | 57 | F | 0 | Positive | 28.67 | 29.24 |
| 102 | 45 | M | 3 | Positive | 22.36 | 22.81 |
| 103 | 41 | F | 3 | Positive | 17.74 | 17.92 |
| 104 | 26 | F | 2 | Positive | 27.7 | 27.15 |
| 105 | 58 | F | 19 | Negative | >40 | 35.25 |
| 106 | 39 | F | 3 | Positive | 15.08 | 15.38 |
| 107 | 60 | F | 0 | Positive | 24.62 | 24.37 |
| 108 | 11 | M | 5 | Positive | 20.59 | 20.38 |
| 109 | 12 | F | 3 | Positive | 25.89 | 26.41 |
| 110 | 17 | M | 3 | Positive | 19.5 | 19.5 |
| 111 | 59 | F | 7 | Positive | 23.46 | 22.99 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 112 | 15 | M | 3 | Positive | 29.78 | 29.78 |
| 113 | 53 | F | 1 | Positive | 14.37 | 14.08 |
| 114 | 10 | M | 1 | Positive | 19.57 | 19.57 |
| 115 | 25 | F | 2 | Positive | 23.88 | 23.64 |
| 116 | 39 | M | 3 | Positive | 28.43 | 28.71 |
| 117 | 56 | M | 5 | Positive | 30.88 | 30.88 |
| 118 | 49 | M | 5 | Positive | 19.61 | 19.81 |
| 119 | 20 | M | 3 | Positive | 20.95 | 20.74 |
| 120 | 25 | M | 0 | Positive | 23.78 | 23.3 |
| 121 | 37 | F | 1 | Positive | 21.99 | 21.77 |
| 122 | 52 | F | 3 | Positive | 27.08 | 26.54 |
| 123 | 60 | F | 23 | Positive | 24.66 | 24.91 |
| 124 | 25 | M | 2 | Positive | 23.93 | 23.45 |
| 125 | 19 | F | 2 | Positive | 33.72 | 33.38 |
| 126 | 32 | M | 0 | Positive | 25.86 | 25.86 |
| 127 | 28 | F | 27 | Positive | 32.49 | 33.14 |
| 128 | 52 | F | 6 | Positive | 20.82 | 20.4 |
| 129 | 40 | F | 2 | Positive | 31.45 | 30.82 |
| 130 | 28 | F | 2 | Positive | 31.43 | 31.74 |
| 131 | 31 | F | 1 | Positive | 22.3 | 21.85 |
| 132 | 48 | M | 2 | Positive | 27.47 | 27.2 |
| 133 | 33 | F | 3 | positive | 23.31 | 23.08 |
| 134 | 44 | M | 12 | positive | 15.2 | 15.35 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 135 | 34 | F | 29 | Positive | 19.96 | 20.16 |
| 136 | 18 | M | 1 | Positive | 32.05 | 31.73 |
| 137 | 59 | M | 3 | Positive | 18.8 | 18.61 |
| 138 | 18 | M | 14 | Positive | 17.2 | 17.54 |
| 139 | 38 | M | 0 | Positive | 34.82 | 34.47 |
| 140 | 20 | F | 1 | Positive | 22.51 | 22.96 |
| 141 | 54 | F | 1 | Positive | 28.96 | 28.38 |
| 142 | 43 | F | 0 | Positive | 14.54 | 14.25 |
| 143 | 23 | M | 3 | Positive | 24.58 | 24.09 |
| 144 | 27 | F | 0 | Positive | 23.3 | 23.53 |
| 145 | 39 | M | 1 | Positive | 21.94 | 21.94 |
| 146 | 60 | M | 7 | Positive | 25.1 | 25.35 |
| 147 | 52 | M | 22 | Negative | >40 | 31.37 |
| 148 | 49 | M | 2 | Positive | 19.68 | 19.29 |
| 149 | 42 | M | 1 | positive | 14.85 | 15 |
| 150 | 32 | F | 1 | Positive | 24.91 | 24.91 |
| 151 | 59 | M | 3 | Positive | 25.69 | 25.69 |
| 152 | 33 | F | 2 | Positive | 25.71 | 25.2 |
| 153 | 15 | F | 2 | Positive | 27.12 | 26.85 |
| 154 | 16 | F | 7 | Negative | >40 | 35.01 |
| 155 | 24 | M | 2 | Positive | 23.46 | 23.46 |
| 156 | 52 | F | 1 | Positive | 14.01 | 14.01 |
| 157 | 60 | M | 3 | Positive | 27.28 | 27.28 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 158 | 24 | M | 3 | Positive | 21.21 | 21 |
| 159 | 36 | F | 1 | Positive | 16.23 | 15.91 |
| 160 | 19 | F | 3 | Positive | 21.11 | 21.32 |
| 161 | 33 | F | 0 | Positive | 17.7 | 17.52 |
| 162 | 53 | M | 0 | Positive | 18.99 | 19.37 |
| 163 | 43 | M | 3 | Positive | 14.46 | 14.75 |
| 164 | 12 | F | 2 | Positive | 34.25 | 33.91 |
| 165 | 14 | M | 1 | Positive | 14.68 | 14.68 |
| 166 | 56 | M | 3 | Positive | 16.37 | 16.7 |
| 167 | 52 | F | 0 | Positive | 26.62 | 26.89 |
| 168 | 32 | F | 3 | Positive | 15.2 | 15.5 |
| 169 | 50 | M | 0 | Positive | 32.2 | 32.52 |
| 170 | 18 | F | 2 | Positive | 18.52 | 18.15 |
| 171 | 35 | F | 2 | Positive | 28.17 | 27.89 |
| 172 | 12 | M | 0 | Positive | 28.99 | 28.99 |
| 173 | 14 | F | 27 | Positive | 32.57 | 32.9 |
| 174 | 13 | F | 3 | Positive | 27.88 | 28.16 |
| 175 | 42 | M | 3 | Positive | 16.8 | 16.46 |
| 176 | 13 | F | 0 | Positive | 20.05 | 19.65 |
| 177 | 14 | F | 3 | Positive | 19.49 | 19.49 |
| 178 | 60 | M | 0 | Positive | 28.7 | 29.27 |
| 179 | 13 | F | 0 | Positive | 27.63 | 27.91 |
| 180 | 51 | M | 1 | Positive | 21.79 | 22.23 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 181 | 56 | M | 3 | Positive | 17.33 | 17.5 |
| 182 | 14 | F | 3 | Positive | 23.94 | 23.46 |
| 183 | 45 | F | 0 | Positive | 32.37 | 32.05 |
| 184 | 24 | F | 1 | Positive | 20.03 | 20.03 |
| 185 | 15 | M | 2 | Positive | 31.31 | 31 |
| 186 | 51 | F | 7 | Positive | 15.26 | 15.11 |
| 187 | 31 | M | 2 | Positive | 27.51 | 27.51 |
| 188 | 49 | M | 7 | Positive | 16.07 | 16.23 |
| 189 | 28 | M | 0 | Positive | 27.15 | 26.61 |
| 190 | 80 | M | 0 | Positive | 31.13 | 31.13 |
| 191 | 47 | M | 20 | Positive | 17.21 | 17.21 |
| 192 | 22 | F | 3 | Positive | 31.33 | 31.33 |
| 193 | 49 | F | 24 | Positive | 25.13 | 25.38 |
| 194 | 23 | M | 3 | Positive | 18.2 | 17.84 |
| 195 | 30 | F | 1 | Positive | 21.4 | 21.4 |
| 196 | 55 | F | 7 | Positive | 27.42 | 27.69 |
| 197 | 75 | F | 0 | Positive | 22.87 | 22.87 |
| 198 | 49 | M | 0 | Positive | 14.63 | 14.78 |
| 199 | 81 | M | 24 | Positive | 20.42 | 20.22 |
| 200 | 51 | F | 0 | Positive | 22.09 | 22.53 |
| 201 | 12 | F | 3 | Positive | 16.93 | 17.1 |
| 202 | 47 | M | 2 | Positive | 27.4 | 27.13 |
| 203 | 78 | F | 1 | Positive | 18.69 | 18.69 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 204 | 73 | M | 6 | Positive | 15.02 | 14.87 |
| 205 | 11 | M | 2 | Positive | 28.61 | 28.32 |
| 206 | 11 | M | 14 | Positive | 21.41 | 21.2 |
| 207 | 12 | F | 1 | Positive | 14.48 | 14.77 |
| 208 | 60 | M | 1 | Positive | 22.11 | 22.33 |
| 209 | 67 | F | 5 | Negative | 32.6 | 33.25 |
| 210 | 62 | F | / | Negative | >40 | >40 |
| 211 | 81 | M | / | Negative | >40 | >40 |
| 212 | 18 | F | / | Negative | >40 | >40 |
| 213 | 71 | F | / | Negative | >40 | >40 |
| 214 | 37 | M | / | Negative | >40 | >40 |
| 215 | 44 | F | / | Negative | >40 | >40 |
| 216 | 79 | M | / | Negative | >40 | >40 |
| 217 | 67 | M | / | Negative | >40 | >40 |
| 218 | 61 | F | / | Negative | >40 | >40 |
| 219 | 59 | F | / | Negative | >40 | >40 |
| 220 | 28 | F | / | Negative | >40 | >40 |
| 221 | 82 | M | / | Negative | >40 | >40 |
| 222 | 63 | F | / | Negative | >40 | >40 |
| 223 | 53 | M | / | Negative | >40 | >40 |
| 224 | 43 | M | / | Negative | >40 | >40 |
| 225 | 46 | M | / | Negative | >40 | >40 |
| 226 | 46 | F | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 227 | 21 | F | / | Negative | >40 | >40 |
| 228 | 46 | F | / | Negative | >40 | >40 |
| 229 | 71 | M | / | Negative | >40 | >40 |
| 230 | 60 | F | / | Negative | >40 | >40 |
| 231 | 31 | F | / | Negative | >40 | >40 |
| 232 | 72 | M | / | Negative | >40 | >40 |
| 233 | 62 | M | / | Negative | >40 | >40 |
| 234 | 39 | F | / | Negative | >40 | >40 |
| 235 | 45 | M | / | Negative | >40 | >40 |
| 236 | 21 | M | / | Negative | >40 | >40 |
| 237 | 33 | M | / | Negative | >40 | >40 |
| 238 | 83 | M | / | Negative | >40 | >40 |
| 239 | 15 | M | / | Negative | >40 | >40 |
| 240 | 59 | M | / | Negative | >40 | >40 |
| 241 | 54 | M | / | Negative | >40 | >40 |
| 242 | 84 | F | / | Negative | >40 | >40 |
| 243 | 84 | F | / | Negative | >40 | >40 |
| 244 | 42 | F | / | Negative | >40 | >40 |
| 245 | 63 | F | / | Negative | >40 | >40 |
| 246 | 29 | M | / | Negative | >40 | >40 |
| 247 | 50 | M | / | Negative | >40 | >40 |
| 248 | 74 | F | / | Negative | >40 | >40 |
| 249 | 43 | M | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 250 | 68 | M | / | Negative | >40 | >40 |
| 251 | 29 | M | / | Negative | >40 | >40 |
| 252 | 54 | M | / | Negative | >40 | >40 |
| 253 | 49 | M | / | Negative | >40 | >40 |
| 254 | 20 | M | / | Negative | >40 | >40 |
| 255 | 26 | M | / | Negative | >40 | >40 |
| 256 | 22 | M | / | Negative | >40 | >40 |
| 257 | 32 | F | / | Negative | >40 | >40 |
| 258 | 28 | M | / | Negative | >40 | >40 |
| 259 | 44 | M | / | Negative | >40 | >40 |
| 260 | 57 | F | / | Negative | >40 | >40 |
| 261 | 64 | F | / | Negative | >40 | >40 |
| 262 | 39 | F | / | Negative | >40 | >40 |
| 263 | 38 | F | / | Negative | >40 | >40 |
| 264 | 73 | M | / | Negative | >40 | >40 |
| 265 | 45 | M | / | Negative | >40 | >40 |
| 266 | 61 | M | / | Negative | >40 | >40 |
| 267 | 13 | F | / | Negative | >40 | >40 |
| 268 | 64 | F | / | Negative | >40 | >40 |
| 269 | 26 | F | / | Negative | >40 | >40 |
| 270 | 28 | M | / | Negative | >40 | >40 |
| 271 | 58 | M | / | Negative | >40 | >40 |
| 272 | 35 | F | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 273 | 51 | M | / | Negative | >40 | >40 |
| 274 | 60 | M | / | Negative | >40 | >40 |
| 275 | 17 | M | / | Negative | >40 | >40 |
| 276 | 18 | F | / | Negative | >40 | >40 |
| 277 | 15 | M | / | Negative | >40 | >40 |
| 278 | 52 | M | / | Negative | >40 | >40 |
| 279 | 33 | M | / | Negative | >40 | >40 |
| 280 | 41 | F | / | Negative | >40 | >40 |
| 281 | 11 | M | / | Negative | >40 | >40 |
| 282 | 19 | F | / | Negative | >40 | >40 |
| 283 | 10 | F | / | Negative | >40 | >40 |
| 284 | 62 | F | / | Negative | >40 | >40 |
| 285 | 68 | F | / | Negative | >40 | >40 |
| 286 | 38 | M | / | Negative | >40 | >40 |
| 287 | 59 | M | / | Negative | >40 | >40 |
| 288 | 76 | F | / | Negative | >40 | >40 |
| 289 | 24 | M | / | Negative | >40 | >40 |
| 290 | 68 | M | / | Negative | >40 | >40 |
| 291 | 82 | F | / | Negative | >40 | >40 |
| 292 | 64 | F | / | Negative | >40 | >40 |
| 293 | 59 | M | / | Negative | >40 | >40 |
| 294 | 59 | M | / | Negative | >40 | >40 |
| 295 | 83 | M | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 296 | 58 | F | / | Negative | >40 | >40 |
| 297 | 68 | M | / | Negative | >40 | >40 |
| 298 | 77 | M | / | Negative | >40 | >40 |
| 299 | 47 | F | / | Negative | >40 | >40 |
| 300 | 71 | M | / | Negative | >40 | >40 |
| 301 | 21 | F | / | Negative | >40 | >40 |
| 302 | 52 | M | / | Negative | >40 | >40 |
| 303 | 70 | M | / | Negative | >40 | >40 |
| 304 | 63 | M | / | Negative | >40 | >40 |
| 305 | 59 | M | / | Negative | >40 | >40 |
| 306 | 26 | M | / | Negative | >40 | >40 |
| 307 | 36 | F | / | Negative | >40 | >40 |
| 308 | 47 | F | / | Negative | >40 | >40 |
| 309 | 45 | M | / | Negative | >40 | >40 |
| 310 | 29 | F | / | Negative | >40 | >40 |
| 311 | 30 | M | / | Negative | >40 | >40 |
| 312 | 25 | F | / | Negative | >40 | >40 |
| 313 | 73 | M | / | Negative | >40 | >40 |
| 314 | 76 | M | / | Negative | >40 | >40 |
| 315 | 25 | M | / | Negative | >40 | >40 |
| 316 | 49 | F | / | Negative | >40 | >40 |
| 317 | 62 | M | / | Negative | >40 | >40 |
| 318 | 38 | M | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 319 | 33 | M | / | Negative | >40 | >40 |
| 320 | 39 | M | / | Negative | >40 | >40 |
| 321 | 69 | M | / | Negative | >40 | >40 |
| 322 | 79 | F | / | Negative | >40 | >40 |
| 323 | 32 | M | / | Negative | >40 | >40 |
| 324 | 35 | M | / | Negative | >40 | >40 |
| 325 | 39 | M | / | Negative | >40 | >40 |
| 326 | 61 | F | / | Negative | >40 | >40 |
| 327 | 10 | F | / | Negative | >40 | >40 |
| 328 | 37 | M | / | Negative | >40 | >40 |
| 329 | 52 | F | / | Negative | >40 | >40 |
| 330 | 41 | M | / | Negative | >40 | >40 |
| 331 | 74 | M | / | Negative | >40 | >40 |
| 332 | 51 | F | / | Negative | >40 | >40 |
| 333 | 56 | M | / | Negative | >40 | >40 |
| 334 | 62 | F | / | Negative | >40 | >40 |
| 335 | 60 | F | / | Negative | >40 | >40 |
| 336 | 54 | F | / | Negative | >40 | >40 |
| 337 | 81 | F | / | Negative | >40 | >40 |
| 338 | 79 | F | / | Negative | >40 | >40 |
| 339 | 73 | F | / | Negative | >40 | >40 |
| 340 | 35 | F | / | Negative | >40 | >40 |
| 341 | 76 | F | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 342 | 23 | M | / | Negative | >40 | >40 |
| 343 | 13 | F | / | Negative | >40 | >40 |
| 344 | 14 | M | / | Negative | >40 | >40 |
| 345 | 43 | M | / | Negative | >40 | >40 |
| 346 | 30 | F | / | Negative | >40 | >40 |
| 347 | 57 | M | / | Negative | >40 | >40 |
| 348 | 30 | F | / | Negative | >40 | >40 |
| 349 | 65 | M | / | Negative | >40 | >40 |
| 350 | 66 | F | / | Negative | >40 | >40 |
| 351 | 38 | F | / | Negative | >40 | >40 |
| 352 | 49 | M | / | Negative | >40 | >40 |
| 353 | 23 | F | / | Negative | >40 | >40 |
| 354 | 51 | M | / | Negative | >40 | >40 |
| 355 | 64 | F | / | Negative | >40 | >40 |
| 356 | 67 | M | / | Negative | >40 | >40 |
| 357 | 34 | M | / | Negative | >40 | >40 |
| 358 | 55 | M | / | Negative | >40 | >40 |
| 359 | 58 | M | / | Negative | >40 | >40 |
| 360 | 67 | F | / | Negative | >40 | >40 |
| 361 | 20 | F | / | Negative | >40 | >40 |
| 362 | 42 | M | / | Negative | >40 | >40 |
| 363 | 59 | M | / | Negative | >40 | >40 |
| 364 | 12 | M | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 365 | 37 | F | / | Negative | >40 | >40 |
| 366 | 63 | M | / | Negative | >40 | >40 |
| 367 | 39 | F | / | Negative | >40 | >40 |
| 368 | 38 | M | / | Negative | >40 | >40 |
| 369 | 37 | M | / | Negative | >40 | >40 |
| 370 | 37 | F | / | Negative | >40 | >40 |
| 371 | 56 | F | / | Negative | >40 | >40 |
| 372 | 56 | F | / | Negative | >40 | >40 |
| 373 | 59 | M | / | Negative | >40 | >40 |
| 374 | 13 | M | / | Negative | >40 | >40 |
| 375 | 80 | F | / | Negative | >40 | >40 |
| 376 | 59 | M | / | Negative | >40 | >40 |
| 377 | 61 | F | / | Negative | >40 | >40 |
| 378 | 70 | M | / | Negative | >40 | >40 |
| 379 | 20 | M | / | Negative | >40 | >40 |
| 380 | 75 | F | / | Negative | >40 | >40 |
| 381 | 49 | M | / | Negative | >40 | >40 |
| 382 | 47 | M | / | Negative | >40 | >40 |
| 383 | 65 | F | / | Negative | >40 | >40 |
| 384 | 78 | M | / | Negative | >40 | >40 |
| 385 | 84 | M | / | Negative | >40 | >40 |
| 386 | 72 | F | / | Negative | >40 | >40 |
| 387 | 20 | F | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 388 | 23 | F | / | Negative | >40 | >40 |
| 389 | 18 | F | / | Negative | >40 | >40 |
| 390 | 67 | M | / | Negative | >40 | >40 |
| 391 | 39 | F | / | Negative | >40 | >40 |
| 392 | 80 | M | / | Negative | >40 | >40 |
| 393 | 74 | F | / | Negative | >40 | >40 |
| 394 | 14 | M | / | Negative | >40 | >40 |
| 395 | 62 | M | / | Negative | >40 | >40 |
| 396 | 24 | F | / | Negative | >40 | >40 |
| 397 | 13 | M | / | Negative | >40 | >40 |
| 398 | 39 | F | / | Negative | >40 | >40 |
| 399 | 32 | M | / | Negative | >40 | >40 |
| 400 | 15 | M | / | Negative | >40 | >40 |
| 401 | 16 | M | / | Negative | >40 | >40 |
| 402 | 11 | M | / | Negative | >40 | >40 |
| 403 | 29 | M | / | Negative | >40 | >40 |
| 404 | 83 | F | / | Negative | >40 | >40 |
| 405 | 66 | F | / | Negative | >40 | >40 |
| 406 | 20 | M | / | Negative | >40 | >40 |
| 407 | 73 | F | / | Negative | >40 | >40 |
| 408 | 54 | M | / | Negative | >40 | >40 |
| 409 | 61 | M | / | Negative | >40 | >40 |
| 410 | 14 | M | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 411 | 29 | F | / | Negative | >40 | >40 |
| 412 | 63 | F | / | Negative | >40 | >40 |
| 413 | 56 | M | / | Negative | >40 | >40 |
| 414 | 28 | M | / | Negative | >40 | >40 |
| 415 | 50 | F | / | Negative | >40 | >40 |
| 416 | 21 | F | / | Negative | >40 | >40 |
| 417 | 24 | M | / | Negative | >40 | >40 |
| 418 | 51 | F | / | Negative | >40 | >40 |
| 419 | 63 | M | / | Negative | >40 | >40 |
| 420 | 22 | M | / | Negative | >40 | >40 |
| 421 | 55 | F | / | Negative | >40 | >40 |
| 422 | 11 | F | / | Negative | >40 | >40 |
| 423 | 37 | F | / | Negative | >40 | >40 |
| 424 | 60 | F | / | Negative | >40 | >40 |
| 425 | 78 | M | / | Negative | >40 | >40 |
| 426 | 48 | M | / | Negative | >40 | >40 |
| 427 | 39 | M | / | Negative | >40 | >40 |
| 428 | 31 | F | / | Negative | >40 | >40 |
| 429 | 24 | M | / | Negative | >40 | >40 |
| 430 | 51 | F | / | Negative | >40 | >40 |
| 431 | 43 | M | / | Negative | >40 | >40 |
| 432 | 49 | F | / | Negative | >40 | >40 |
| 433 | 18 | F | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 434 | 32 | M | / | Negative | >40 | >40 |
| 435 | 77 | M | / | Negative | >40 | >40 |
| 436 | 47 | M | / | Negative | >40 | >40 |
| 437 | 82 | F | / | Negative | >40 | >40 |
| 438 | 38 | F | / | Negative | >40 | >40 |
| 439 | 51 | M | / | Negative | >40 | >40 |
| 440 | 40 | F | / | Negative | >40 | >40 |
| 441 | 21 | F | / | Negative | >40 | >40 |
| 442 | 60 | M | / | Negative | >40 | >40 |
| 443 | 80 | F | / | Negative | >40 | >40 |
| 444 | 12 | M | / | Negative | >40 | >40 |
| 445 | 68 | F | / | Negative | >40 | >40 |
| 446 | 11 | M | / | Negative | >40 | >40 |
| 447 | 55 | M | / | Negative | >40 | >40 |
| 448 | 83 | M | / | Negative | >40 | >40 |
| 449 | 83 | M | / | Negative | >40 | >40 |
| 450 | 84 | F | / | Negative | >40 | >40 |
| 451 | 29 | F | / | Negative | >40 | >40 |
| 452 | 53 | F | / | Negative | >40 | >40 |
| 453 | 42 | M | / | Negative | >40 | >40 |
| 454 | 48 | M | / | Negative | >40 | >40 |
| 455 | 34 | F | / | Negative | >40 | >40 |
| 456 | 40 | M | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 457 | 77 | F | / | Negative | >40 | >40 |
| 458 | 39 | F | / | Negative | >40 | >40 |
| 459 | 81 | M | / | Negative | >40 | >40 |
| 460 | 63 | M | / | Negative | >40 | >40 |
| 461 | 15 | M | / | Negative | >40 | >40 |
| 462 | 81 | F | / | Negative | >40 | >40 |
| 463 | 79 | M | / | Negative | >40 | >40 |
| 464 | 58 | M | / | Negative | >40 | >40 |
| 465 | 23 | M | / | Negative | >40 | >40 |
| 466 | 15 | M | / | Negative | >40 | >40 |
| 467 | 82 | M | / | Negative | >40 | >40 |
| 468 | 48 | M | / | Negative | >40 | >40 |
| 469 | 73 | F | / | Negative | >40 | >40 |
| 470 | 71 | M | / | Negative | >40 | >40 |
| 471 | 69 | F | / | Negative | >40 | >40 |
| 472 | 22 | M | / | Negative | >40 | >40 |
| 473 | 52 | M | / | Negative | >40 | >40 |
| 474 | 26 | M | / | Negative | >40 | >40 |
| 475 | 82 | M | / | Negative | >40 | >40 |
| 476 | 36 | M | / | Negative | >40 | >40 |
| 477 | 46 | M | / | Negative | >40 | >40 |
| 478 | 47 | F | / | Negative | >40 | >40 |
| 479 | 24 | F | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 480 | 33 | M | / | Negative | >40 | >40 |
| 481 | 17 | M | / | Negative | >40 | >40 |
| 482 | 34 | F | / | Negative | >40 | >40 |
| 483 | 76 | F | / | Negative | >40 | >40 |
| 484 | 53 | M | / | Negative | >40 | >40 |
| 485 | 53 | M | / | Negative | >40 | >40 |
| 486 | 76 | F | / | Negative | >40 | >40 |
| 487 | 66 | F | / | Negative | >40 | >40 |
| 488 | 57 | F | / | Negative | >40 | >40 |
| 489 | 21 | F | / | Negative | >40 | >40 |
| 490 | 35 | M | / | Negative | >40 | >40 |
| 491 | 21 | F | / | Negative | >40 | >40 |
| 492 | 21 | M | / | Negative | >40 | >40 |
| 493 | 28 | F | / | Negative | >40 | >40 |
| 494 | 58 | M | / | Negative | >40 | >40 |
| 495 | 37 | M | / | Negative | >40 | >40 |
| 496 | 22 | M | / | Negative | >40 | >40 |
| 497 | 65 | M | / | Negative | >40 | >40 |
| 498 | 29 | M | / | Negative | >40 | >40 |
| 499 | 48 | M | / | Negative | >40 | >40 |
| 500 | 11 | M | / | Negative | >40 | >40 |
| 501 | 29 | F | / | Negative | >40 | >40 |
| 502 | 11 | F | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 503 | 79 | M | / | Negative | >40 | >40 |
| 504 | 46 | F | / | Negative | >40 | >40 |
| 505 | 14 | M | / | Negative | >40 | >40 |
| 506 | 17 | M | / | Negative | >40 | >40 |
| 507 | 72 | F | / | Negative | >40 | >40 |
| 508 | 83 | F | / | Negative | >40 | >40 |
| 509 | 30 | F | / | Negative | >40 | >40 |
| 510 | 71 | M | / | Negative | >40 | >40 |
| 511 | 79 | M | / | Negative | >40 | >40 |
| 512 | 84 | F | / | Negative | >40 | >40 |
| 513 | 62 | M | / | Negative | >40 | >40 |
| 514 | 50 | F | / | Negative | >40 | >40 |
| 515 | 21 | F | / | Negative | >40 | >40 |
| 516 | 81 | F | / | Negative | >40 | >40 |
| 517 | 76 | F | / | Negative | >40 | >40 |
| 518 | 41 | F | / | Negative | >40 | >40 |
| 519 | 73 | M | / | Negative | >40 | >40 |
| 520 | 83 | F | / | Negative | >40 | >40 |
| 521 | 71 | M | / | Negative | >40 | >40 |
| 522 | 10 | M | / | Negative | >40 | >40 |
| 523 | 63 | M | / | Negative | >40 | >40 |
| 524 | 72 | M | / | Negative | >40 | >40 |
| 525 | 59 | M | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 526 | 35 | M | / | Negative | >40 | >40 |
| 527 | 58 | M | / | Negative | >40 | >40 |
| 528 | 46 | F | / | Negative | >40 | >40 |
| 529 | 79 | M | / | Negative | >40 | >40 |
| 530 | 76 | M | / | Negative | >40 | >40 |
| 531 | 77 | F | / | Negative | >40 | >40 |
| 532 | 45 | F | / | Negative | >40 | >40 |
| 533 | 73 | M | / | Negative | >40 | >40 |
| 534 | 38 | F | / | Negative | >40 | >40 |
| 535 | 41 | F | / | Negative | >40 | >40 |
| 536 | 32 | F | / | Negative | >40 | >40 |
| 537 | 50 | M | / | Negative | >40 | >40 |
| 538 | 31 | M | / | Negative | >40 | >40 |
| 539 | 74 | F | / | Negative | >40 | >40 |
| 540 | 16 | F | / | Negative | >40 | >40 |
| 541 | 69 | M | / | Negative | >40 | >40 |
| 542 | 72 | M | / | Negative | >40 | >40 |
| 543 | 40 | F | / | Negative | >40 | >40 |
| 544 | 78 | F | / | Negative | >40 | >40 |
| 545 | 53 | M | / | Negative | >40 | >40 |
| 546 | 44 | F | / | Negative | >40 | >40 |
| 547 | 28 | M | / | Negative | >40 | >40 |
| 548 | 14 | M | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 549 | 80 | F | / | Negative | >40 | >40 |
| 550 | 40 | F | / | Negative | >40 | >40 |
| 551 | 26 | M | / | Negative | >40 | >40 |
| 552 | 11 | F | / | Negative | >40 | >40 |
| 553 | 53 | F | / | Negative | >40 | >40 |
| 554 | 19 | M | / | Negative | >40 | >40 |
| 555 | 21 | M | / | Negative | >40 | >40 |
| 556 | 60 | M | / | Negative | >40 | >40 |
| 557 | 12 | F | / | Negative | >40 | >40 |
| 558 | 58 | M | / | Negative | >40 | >40 |
| 559 | 62 | M | / | Negative | >40 | >40 |
| 560 | 45 | M | / | Negative | >40 | >40 |
| 561 | 34 | F | / | Negative | >40 | >40 |
| 562 | 35 | F | / | Negative | >40 | >40 |
| 563 | 82 | M | / | Negative | >40 | >40 |
| 564 | 59 | F | / | Negative | >40 | >40 |
| 565 | 59 | F | / | Negative | >40 | >40 |
| 566 | 38 | F | / | Negative | >40 | >40 |
| 567 | 82 | M | / | Negative | >40 | >40 |
| 568 | 22 | F | / | Negative | >40 | >40 |
| 569 | 50 | M | / | Negative | >40 | >40 |
| 570 | 25 | M | / | Negative | >40 | >40 |
| 571 | 52 | M | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 572 | 13 | M | / | Negative | >40 | >40 |
| 573 | 33 | M | / | Negative | >40 | >40 |
| 574 | 60 | F | / | Negative | >40 | >40 |
| 575 | 43 | F | / | Negative | >40 | >40 |
| 576 | 46 | M | / | Negative | >40 | >40 |
| 577 | 76 | F | / | Negative | >40 | >40 |
| 578 | 34 | M | / | Negative | >40 | >40 |
| 579 | 52 | F | / | Negative | >40 | >40 |
| 580 | 50 | F | / | Negative | >40 | >40 |
| 581 | 64 | F | / | Negative | >40 | >40 |
| 582 | 52 | M | / | Negative | >40 | >40 |
| 583 | 57 | M | / | Negative | >40 | >40 |
| 584 | 50 | F | / | Negative | >40 | >40 |
| 585 | 52 | M | / | Negative | >40 | >40 |
| 586 | 60 | F | / | Negative | >40 | >40 |
| 587 | 16 | F | / | Negative | >40 | >40 |
| 588 | 18 | F | / | Negative | >40 | >40 |
| 589 | 58 | M | / | Negative | >40 | >40 |
| 590 | 26 | F | / | Negative | >40 | >40 |
| 591 | 62 | F | / | Negative | >40 | >40 |
| 592 | 28 | M | / | Negative | >40 | >40 |
| 593 | 50 | M | / | Negative | >40 | >40 |
| 594 | 26 | M | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 595 | 82 | F | / | Negative | >40 | >40 |
| 596 | 24 | F | / | Negative | >40 | >40 |
| 597 | 77 | M | / | Negative | >40 | >40 |
| 598 | 13 | M | / | Negative | >40 | >40 |
| 599 | 62 | M | / | Negative | >40 | >40 |
| 600 | 47 | M | / | Negative | >40 | >40 |
| 601 | 62 | M | / | Negative | >40 | >40 |
| 602 | 33 | F | / | Negative | >40 | >40 |
| 603 | 37 | F | / | Negative | >40 | >40 |
| 604 | 60 | F | / | Negative | >40 | >40 |
| 605 | 70 | M | / | Negative | >40 | >40 |
| 606 | 30 | F | / | Negative | >40 | >40 |
| 607 | 23 | M | / | Negative | >40 | >40 |
| 608 | 23 | M | / | Negative | >40 | >40 |
| 609 | 70 | M | / | Negative | >40 | >40 |
| 610 | 41 | F | / | Negative | >40 | >40 |
| 611 | 50 | M | / | Negative | >40 | >40 |
| 612 | 26 | F | / | Negative | >40 | >40 |
| 613 | 22 | F | / | Negative | >40 | >40 |
| 614 | 44 | M | / | Negative | >40 | >40 |
| 615 | 79 | F | / | Negative | >40 | >40 |
| 616 | 64 | F | / | Negative | >40 | >40 |
| 617 | 83 | F | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 618 | 76 | M | / | Negative | >40 | >40 |
| 619 | 25 | M | / | Negative | >40 | >40 |
| 620 | 41 | M | / | Negative | >40 | >40 |
| 621 | 30 | F | / | Negative | >40 | >40 |
| 622 | 30 | M | / | Negative | >40 | >40 |
| 623 | 37 | F | / | Negative | >40 | >40 |
| 624 | 46 | F | / | Negative | >40 | >40 |
| 625 | 48 | F | / | Negative | >40 | >40 |
| 626 | 20 | F | / | Negative | >40 | >40 |
| 627 | 77 | F | / | Negative | >40 | >40 |
| 628 | 55 | F | / | Negative | >40 | >40 |
| 629 | 55 | F | / | Negative | >40 | >40 |
| 630 | 80 | F | / | Negative | >40 | >40 |
| 631 | 45 | F | / | Negative | >40 | >40 |
| 632 | 17 | F | / | Negative | >40 | >40 |
| 633 | 47 | F | / | Negative | >40 | >40 |
| 634 | 48 | F | / | Negative | >40 | >40 |
| 635 | 30 | F | / | Negative | >40 | >40 |
| 636 | 55 | F | / | Negative | >40 | >40 |
| 637 | 16 | F | / | Negative | >40 | >40 |
| 638 | 43 | F | / | Negative | >40 | >40 |
| 639 | 35 | F | / | Negative | >40 | >40 |
| 640 | 67 | F | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 641 | 82 | F | / | Negative | >40 | >40 |
| 642 | 55 | F | / | Negative | >40 | >40 |
| 643 | 75 | F | / | Negative | >40 | >40 |
| 644 | 56 | F | / | Negative | >40 | >40 |
| 645 | 16 | F | / | Negative | >40 | >40 |
| 646 | 21 | F | / | Negative | >40 | >40 |
| 647 | 18 | F | / | Negative | >40 | >40 |
| 648 | 20 | F | / | Negative | >40 | >40 |
| 649 | 63 | F | / | Negative | >40 | >40 |
| 650 | 49 | F | / | Negative | >40 | >40 |

| NO. | Age | Gender | Days from diagnose | Rapid Test | Ct/Cq value (RT-PCR) | |
|---|---|---|---|---|---|---|
| | | | | | RdRP | N gene |
| 651 | 63 | F | / | Negative | >40 | >40 |
| 652 | 18 | F | / | Negative | >40 | >40 |
| 653 | 27 | F | / | Negative | >40 | >40 |
| 654 | 29 | F | / | Negative | >40 | >40 |
| 655 | 47 | F | / | Negative | >40 | >40 |
| 656 | 26 | F | / | Negative | >40 | >40 |
| 657 | 65 | F | / | Negative | >40 | >40 |
| 658 | 28 | F | / | Negative | >40 | >40 |
| 659 | 67 | F | / | Negative | >40 | >40 |

Director:
Date: 2020.11.25
Seal of company signature