

**Attachment 4**

**Clinical trial report of SARS-CoV-2 Spike Protein Test  
Kit (Colloidal Gold Chromatographic Immunoassay)**

Version: A03

Issue Date: 2020.08.25

## **Explanation**

1. Medical institutions in charge of clinical trials should conduct clinical trials in a fair and objective manner in accordance with clinical trial protocols in a serious and responsible manner, and write clinical trial reports.
2. This trial must be conducted by a clinical trial institution with an experienced attending physician or more, or a person with intermediate job title or above who has the relevant work experience.
3. This clinical trial category is clinical validation, and this report should be written with reference to the Technical Guidelines for Clinical Trials of In Vitro Diagnostic Reagents.

Principal researchers of this test

Clinical tester	Position/Title	Responsible for testing content	Current unit
RenLiZhang	Chief technician	Principal researcher, responsible for the organization of clinical tests, review of clinical test protocols and reports.	Shenzhen Center for Diseases Control and Prevention
YinSun	technician	Researcher	Shenzhen Center for Diseases Control and Prevention
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DeZhongXie	technician	Head of statistics	Shenzhen Microprofit Biotech Co., Ltd.

## **1. Clinical validation time**

This clinical evaluation is conducted from July 2020 to Aug 20th, 2020.

## **2. Background information for clinical evaluation**

The 2019 novel coronavirus (2019-nCoV) was discovered around the end of 2019 due to the emergence of novel viral pneumonia cases of unknown cause and was officially named by the World Health Organization (SARS-CoV-2) as COVID-19 on January 12, 2020. Coronaviruses are a large family of viruses that are known to cause colds and more serious diseases such as the Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS). The 2019 novel coronavirus, however, is a new coronavirus strain that has not previously seen in humans.

Common signs of a person infected with coronavirus include respiratory symptoms, fever, cough, shortness of breath and difficulty breathing. In more serious cases, infection can cause pneumonia, severe acute respiratory syndrome, kidney failure, and even death.

The SARS-CoV-2 Spike Protein Test Kit (Colloidal Gold Chromatographic Immunoassay) Test 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.

## **3. Test purposes**

The SARS-CoV-2 Spike Protein Test Kit (Colloidal Gold Chromatographic Immunoassay) produced by Shenzhen Microprofit Biotech Co., Ltd. is used to verify the feasibility of clinical evaluation and the reliability of test results. 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.

## **4. Test design**

### **4.1 Test plan selection and reasons**

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

### **4.2 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.

#### 4.3 Sample inclusion/exclusion certification.

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

Positive group inclusion: Meets 2 of the following 3 criteria, it is inclusion into positive sample group:

Antibody test is positive.

PCR Test is positive.

CT test results and symptoms are clinically positive.

Positive group exclusion:

Samples only Meet 1 of the 3 criteria of inclusion; it is exclusion out of positive sample group. Negative inclusion:

Meets 3 of the following 4 criteria, it is inclusion into negative sample group:

Antibody test is negative.

PCR test is negative.

CT test results and symptoms are clinically negative.

No history of novel coronavirus exposure within 14 day.

Negative exclusion:

Any sample that does not meet the inclusion criteria is excluded out of the negative group.

#### 4.4 Sample collection, processing, and storage

Sample collection: It is applicable to the diagnosis of the coronavirus from the samples of nasal swabs or nasal aspirates. Use freshly collected samples for optimal test performance. Inadequate sample collection or improper sample handling may yield a false-negative result.

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 nasal basin for more accurate results.

In vitro diagnostic reagents and reference products for testing

Test in vitro diagnostic reagents

Name: SARS-CoV-2 Spike Protein Test Kit (Colloidal Gold Chromatographic Immunoassay)

Specification: 25 tests/kit

LOT: 20200701

Expiry: July, 2021 (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: Shenzhen Microprofit Biotech Co., Ltd.

Reference products

Name: New Coronavirus 2019-nCoV nucleic acid detection Reagent kit (fluorescence PCR method).

Manufacturer: BGI BIOTECHNOLOGY (WUHAN) CO., LTD.

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

## 5. Experiment method

### 5.1 Sample collection

Oropharyngeal swab collection method:

- Tip the patient's head slightly.
- Instruct the patient to open mouth as wide as possible to reveal the pharyngeal tonsils on either side.
- Wipe the base of patient's tongue with swab.
- Slightly rub the pharyngeal tonsils back and forth on both sides of the collected subjects at least 3 times.
- Rub the posterior pharyngeal wall up and down at least 3 times.
- Test the sample as soon as possible

Nasopharyngeal swab collection method:

- Tip the patient's head back and collect sample from the nostril that has more mucus (head should be inclined from vertical for proper specimen collection).
- Insert the swab through the nostril entry and then slowly move along the bottom of the nasal cavity (Move gently to avoid traumatic bleeding).
- When the tip of the swab reaches the posterior wall of the nasopharyngeal cavity, gently rotate it several times. (Collect as much secretion as possible)
- To prevent reflex coughing, stop for one minute.
- Slowly remove the swab.
- Test the sample as soon as possible

### 5.2 Sample treatment

#### 5.2.1 Swab sample:

- Add 300µL sample treatment solution to the extraction tube and dip the swab into the sample treatment solution. (The sample treatment solution should fully permeate the swab)
- Rotate and squeeze the swab 10 times, then remove the swab and load the dropper lid for sample testing.

#### 5.2.2 CDC Media/Viral Transport Media:

- Mix the specimen received in viral transport media by shaking the tubes in circle for 5 seconds, then add 100µL sample treatment solution to the extraction tubes
- Fill a calibrated micropipette with 100µL of patient sample from the viral transport media. Then empty the contents of the micropipette into the extraction tubes and load the dropper lid for sample testing.

## 6. Statistical methods of statistical analysis of clinical research data

### A. Methods evaluating clinical performance

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.

## 7. 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.

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%.

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%.

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
SARS-CoV-2 Spike Protein Test Kit (Colloidal Gold Chromatographic Immunoassay)	Result	positive	negative	
	positive	A	B	A+B
	negative	C	D	C+D

Total Results	A+C	B+D	A+B+C+D
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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.

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
SARS-CoV-2 Spike Protein Test Kit (Colloidal Gold Chromatographic Immunoassay)	Result	positive	negative	
	positive	A	B	A+B
	negative	C	D	C+D
Total Results		A+C	B+D	A+B+C+D

$Po = (A+D)/(A+B+C+D) * 100\%$

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

Kappa:  $(Po - Pe) / (1 - Pe)$

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  $0.4 < \text{Kappa coefficient} < 0.8$ , 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  $<0.4$ .

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.

Results and Analysis of Clinical Tests

In total, 351 test samples are included for the unit and all test samples included are tested.

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

Method		2019-nCoV Nucleic Acid Test Kit		Total Results
SARS-CoV-2 Spike Protein Test Kit (Colloidal Gold Chromatographic Immunoassay)	Results	Positive	Negative	
	Positive	45	0	45
	Negative	6	300	306
Total Results		51	300	351



Clinical sensitivity =  $45/51=88.24\%$  (95%CI:76.13% ~95.56%)

Clinical specificity =  $300/300=100\%$  (95%CI:98.78% ~100%)

Accuracy:  $(45+300)/(45+0+6+300) * 100%=98.29\%$  (95%CI:96.32% ~99.37%)

$Pe = (45*51+45*300)/(351*351) = 0.128$

Kappa:  $(Po - Pe)/(1-pe) = 0.9276$

According to the above table, 300 are proven negative of 300 negative specimens, 45 are proven positive of 51 positive specimens. The sensitivity and accuracy are more than 85%, indicating favorable consistency with the reference product. The Kappa=0.9276 > 0.8, indicating favorable and high consistency of two methods and equivalence of two such systems.

### 8. Analysis on Inconsistency in test results

NO.	Age	Sex	SARS-CoV-2 Spike Protein Test Kit (Colloidal Gold Chromatographic Immunoassay)	2019-nCoV nucleic acid test kit (RT-PCR)	Clinical diagnostic
7	58	Female	Negative	Positive	Infection 23 days
15	33	Male	Negative	Positive	Infection 3 days
21	40	Female	Negative	Positive	Infection 21 days
27	29	Female	Negative	Positive	Infection 6 days
34	41	Female	Negative	Positive	Infection 3 days
42	41	Female	Negative	Positive	Infection 17days

### 9. Discussion and Conclusions

#### 9.1 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 90%, indicating favorable consistency with the reference product. In the analysis results of Kappa inspection, Kappa is proven >0.8, indicating favorable and high consistency of both methods. Both systems are proven equivalent.

#### 9.2 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.

## **10. Quality control methods**

### On-site quality control

During this study, clinical implementors appointed clinical inspectors to conduct regular on-site supervision visits to the research hospital. Through monitoring visits, it is found that all the contents of the research plan are strictly observed, and the correctness of the research data is 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.

### Quality control of clinical experiment process

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

## **11. Prediction of adverse events**

Because SARS-CoV-2 Spike Protein Test Kit (Colloidal Gold Chromatographic Immunoassay) 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.

## Annex 1

## Evaluation data sheet of sample test results (sample type: nasal swab)

Sample Number	Age	Gender	Sample type	Diagnosis/Exclude Result	SARS-CoV-2 Spike Protein Test Kit results	RT-PCR test results	Sample collection time	RT-PCR test time
1	50	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/5/24	2020/4/24
2	51	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/4/29	2020/4/15
3	49	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/4/15	2020/4/12
4	33	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/3/9	2020/3/5
5	55	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/7/27	2020/7/26
6	60	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/4/30	2020/4/14
7	58	Female	Nasal swab	COVID-19 Diagnosis	Negative	Positive	2020/5/18	2020/4/25
8	64	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/3/31	2020/3/9
9	21	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/7/19	2020/6/25
10	31	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/7/17	2020/7/9
11	55	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/6/7	2020/5/17

12	67	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/5/27	2020/5/13
13	52	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/2/17	2020/2/8
14	35	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/6/24	2020/6/19
15	33	Male	Nasal swab	COVID-19 Diagnosis	Negative	Positive	2020/7/27	2020/7/24
16	55	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/7/7	2020/6/28
17	69	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/6/23	2020/6/4
18	30	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/3/7	2020/2/23
19	47	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/7/18	2020/6/29
20	56	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/6/2	2020/6/1
21	40	Female	Nasal swab	COVID-19 Diagnosis	Negative	Positive	2020/8/1	2020/7/11
22	40	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/3/16	2020/2/22
23	41	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/5/1	2020/4/29
24	32	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/6/8	2020/5/13
25	32	Male	Nasal	COVID-19	Positive	Positive	2020/3/20	2020/3/9

			swab	Diagnosis				
26	45	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/5/17	2020/5/13
27	29	Female	Nasal swab	COVID-19 Diagnosis	Negative	Positive	2020/7/24	2020/7/18
28	25	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/8/5	2020/7/18
29	65	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/3/5	2020/2/13
30	35	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/7/1	2020/6/30
31	47	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/3/3	2020/2/27
32	32	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/4/19	2020/4/3
33	32	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/3/8	2020/2/20
34	41	Female	Nasal swab	COVID-19 Diagnosis	Negative	Positive	2020/8/3	2020/7/31
35	43	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/8/5	2020/7/28
36	34	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/4/29	2020/4/13
37	57	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/2/23	2020/2/13
38	41	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/4/1	2020/3/7

39	63	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/6/22	2020/6/5
40	52	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/2/25	2020/2/11
41	66	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/3/10	2020/2/17
42	41	Female	Nasal swab	COVID-19 Diagnosis	Negative	Positive	2020/6/13	2020/5/27
43	60	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/2/28	2020/2/15
44	52	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/5/30	2020/5/11
45	27	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/8/6	2020/7/29
46	53	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/4/29	2020/4/25
47	37	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/3/3	2020/2/20
48	38	Female	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/6/14	2020/5/17
49	64	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/5/5	2020/5/4
50	43	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/2/21	2020/1/26
51	69	Male	Nasal swab	COVID-19 Diagnosis	Positive	Positive	2020/6/26	2020/6/7
52	21	Female	Nasal	Exclude	Negative	Negative	2020/8/3	/

			swab					
53	20	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
54	37	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
55	53	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
56	69	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
57	43	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
58	60	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
59	55	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
60	42	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
61	47	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
62	37	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
63	58	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
64	70	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
65	33	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/

66	43	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
67	69	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
68	29	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
69	26	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
70	28	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
71	59	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
72	70	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
73	69	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
74	66	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
75	54	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
76	51	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
77	60	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
78	40	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
79	52	Female	Nasal	Exclude	Negative	Negative	2020/8/3	/



			swab					
80	47	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
81	62	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
82	56	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
83	35	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
84	40	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
85	34	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
86	22	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
87	31	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
88	37	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
89	51	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
90	60	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
91	49	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
92	30	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/

93	25	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
94	26	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
95	46	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
96	22	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
97	40	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
98	39	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
99	47	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
100	50	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
101	25	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
102	44	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
103	23	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
104	39	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
105	39	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
106	56	Male	Nasal	Exclude	Negative	Negative	2020/8/3	/

			swab					
107	25	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
108	29	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
109	38	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
110	38	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
111	26	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
112	67	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
113	51	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
114	41	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
115	23	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
116	31	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
117	33	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
118	41	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
119	35	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/

120	42	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
121	36	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
122	28	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
123	68	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
124	63	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
125	67	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
126	41	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
127	44	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
128	49	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
129	50	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
130	55	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
131	29	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
132	34	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
133	40	Female	Nasal	Exclude	Negative	Negative	2020/8/3	/

			swab					
134	21	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
135	67	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
136	36	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
137	32	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
138	27	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
139	28	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
140	41	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
141	65	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
142	46	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
143	56	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
144	25	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
145	49	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
146	70	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/

147	34	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
148	63	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
149	42	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
150	20	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
151	21	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
152	37	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
153	29	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
154	53	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
155	29	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
156	57	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
157	47	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
158	50	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
159	39	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
160	49	Male	Nasal	Exclude	Negative	Negative	2020/8/3	/

			swab					
161	36	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
162	42	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
163	23	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
164	55	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
165	58	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
166	33	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
167	39	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
168	21	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
169	32	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
170	64	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
171	58	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
172	54	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
173	32	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/

174	56	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
175	21	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
176	64	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
177	49	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
178	21	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
179	48	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
180	25	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
181	47	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
182	41	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
183	45	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
184	48	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
185	61	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
186	33	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
187	36	Male	Nasal	Exclude	Negative	Negative	2020/8/3	/



			swab					
188	32	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
189	55	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
190	49	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
191	23	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
192	43	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
193	52	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
194	28	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
195	36	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
196	23	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
197	26	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
198	43	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
199	29	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
200	67	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/

201	46	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
202	27	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
203	49	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
204	22	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
205	45	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
206	54	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
207	54	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
208	22	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
209	44	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
210	65	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
211	43	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
212	33	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
213	44	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
214	64	Female	Nasal	Exclude	Negative	Negative	2020/8/3	/

			swab					
215	49	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
216	42	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
217	60	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
218	54	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
219	67	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
220	49	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
221	56	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
222	51	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
223	60	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
224	33	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
225	48	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
226	57	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
227	56	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/

228	65	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
229	66	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
230	61	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
231	47	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
232	29	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
233	34	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
234	47	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
235	47	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
236	41	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
237	32	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
238	41	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
239	24	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
240	61	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
241	31	Female	Nasal	Exclude	Negative	Negative	2020/8/3	/

			swab					
242	64	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
243	31	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
244	45	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
245	59	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
246	20	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
247	55	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
248	26	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
249	51	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
250	45	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
251	57	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
252	23	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
253	22	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
254	37	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/

255	37	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
256	53	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
257	28	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
258	36	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
259	42	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
260	21	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
261	44	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
262	38	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
263	39	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
264	50	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
265	68	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
266	46	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
267	43	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
268	40	Male	Nasal	Exclude	Negative	Negative	2020/8/3	/

			swab					
269	34	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
270	50	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
271	36	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
272	40	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
273	36	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
274	70	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
275	32	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
276	33	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
277	64	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
278	67	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
279	42	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
280	42	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
281	36	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/

282	54	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
283	37	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
284	52	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
285	61	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
286	43	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
287	28	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
288	42	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
289	46	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
290	64	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
291	25	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
292	26	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
293	68	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
294	37	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
295	37	Male	Nasal	Exclude	Negative	Negative	2020/8/3	/



			swab					
296	68	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
297	21	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
298	56	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
299	44	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
300	26	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
301	43	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
302	59	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
303	26	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
304	65	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
305	28	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
306	37	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
307	35	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
308	65	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/

309	56	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
310	59	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
311	29	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
312	45	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
313	58	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
314	39	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
315	20	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
316	33	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
317	68	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
318	21	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
319	28	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
320	40	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
321	60	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
322	29	Male	Nasal	Exclude	Negative	Negative	2020/8/3	/

			swab					
323	25	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
324	60	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
325	65	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
326	35	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
327	36	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
328	49	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
329	36	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
330	50	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
331	28	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
332	37	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
333	66	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
334	54	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
335	56	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/

336	45	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
337	44	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
338	47	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
339	49	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
340	57	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
341	68	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
342	63	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
343	25	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
344	34	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
345	36	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
346	27	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
347	28	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
348	43	Male	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
349	42	Female	Nasal	Exclude	Negative	Negative	2020/8/3	/

			swab					
350	49	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/
351	25	Female	Nasal swab	Exclude	Negative	Negative	2020/8/3	/