



Clinical Summary Report Of COVID-19 Test Kit (Colloidal Gold Method)

Responsibility	Name	Position	Signature/Date
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1 Research purpose

Through the review of clinical data collected from hospitals in different countries and negative clinical results made within the company, the data were summarized and analyzed, so as to verify the clinical performance of the COVID-19 Test Kit (Colloidal Gold Method). It is to verify that the accuracy of the product in clinical trial, by using PCR as control reagent, meets the requirement of 90% to determine that whether the product can meet the expected safety and effectiveness.

2 Reagent information

Product name: COVID-19 Test Kit (Colloidal Gold Method)

Manufacturer: Hangzhou Singclean Medical Products Co., Ltd.

Control reagent: PCR

3 Product introduction

People are generally susceptible. Currently, the patients infected by the novel coronavirus are the main source of infection; asymptotically 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.

4 Intended use

COVID-19 Test Kit (Colloidal Gold Method) is a solid phase immunochromatographic assay for the rapid, qualitative detection of antigen to 2019 Novel Coronavirus in human nasal cavity. This test provides only a preliminary test result. Therefore, any reactive specimen with the COVID-19 Test Kit (Colloidal Gold Method) must be confirmed with alternative testing method(s) and clinical findings.

5 Principle of products

The COVID-19 Test Kit (Colloidal Gold Method) is a colloidal gold immunochromatographic assay. The test uses COVID-19 (SARS-CoV-2) antibody (test line T) and goat anti-mouse IgG (control line C) immobilised on a nitrocellulose strip. The burgundy colored conjugate pad contains colloidal gold conjugated to another COVID-19 (SARS-CoV-2) antibody conjugated with colloid gold and mouse IgG-gold conjugates. When the processed buffer containing the sample is added to the sample well, COVID-19 (SARS-CoV-2) will combine with the COVID-19 antibody conjugate to form an antigen-antibody complex. This complex migrates through nitrocellulose membrane by capillary action. When the complex meets the line of the COVID-19 antibody of

test line T, the complex is trapped forming a burgundy colored band which confirm a reactive test result. Absence of a colored band in the test region indicates a non-reactive test result. The test contains an internal control (C band) which should exhibit a burgundy colored band of the immunocomplex goat anti-mouse IgG/mouse IgG-gold conjugate regardless of the color development on any of the test bands. Otherwise, the test result is invalid and the specimen must be retested with another device.

6 Clinical Trial Center

- 6.1 TEODORO MALDONADO CARBO, Hospital in Ecuador
- 6.2 IESS LOS Ceibos del Norte de Guayaquil, Hospital in Ecuador
- 6.3 Hospital Arnau, Hospital in Spain
- 6.4 Laboratory of Hangzhou Singclean Medical Products Co., Ltd.

7 Specimen type

Specimen taken from the human nasopharynx by a nasopharyngeal or nasal swab, from oropharynx by a oropharyngeal or throat swab. Use freshly collected samples for optimal test performance. Inadequate sample collection or improper sample handling may yield a false-negative result.

Nasal swab, oropharyngeal swab and nasopharyngeal swab can be used by Singclean Products Covid-19 Test kit (Colloidal Gold Method) one step Coronavirus Antigen Rapid Test Cassette (Nasopharyngeal Swab/Nasal Swab/Oropharyngeal swab) to detect the presence of SARS-CoV-2 antigen in the specimen.

Internal validation studies based on Matrix Equivalency were performed on nasal swab, oropharyngeal swab and nasopharyngeal swab specimens, no statistic difference was observed among those specimens.

8 Specimen requirements

Each specimen shall contain the following information:

- The specimen collection date;
- Date of onset of symptoms (if present);
- Date of PCR testing;
- Severity or absence of symptoms;
- Tests used to identify COVID-19 patients.

9 Experiment method

Allow test cassette, specimen, and Antigen extract buffer control to equilibrate to room temperature(15-30°C) prior to testing.

- a) Remove the test cassette from the sealed foil pouch and use it as soon as possible. Best results will be obtained if the assay is performed within one hour.
- b) Place the test device on a clean and level surface.
- c)
 1. Ask the patient to remove the secretions on the surface of the anterior nasal cavity, keep the head slightly tilted, and gently and slowly insert the swab through the nasal cavity to the nasopharynx, When resistance is encountered, it will reach the posterior nasopharynx, turn the swab 10 times and then remove it from the nostril.
 2. The sterile swab (stick) should be inserted into 2.5cm (1 inch) from the edge of the nostril. Hit the swab 5 times along the mucous membrane inside the nostrils to ensure that both mucus and cells are collected. Repeat this procedure for the second nasal stick to ensure that a sample is taken from both nasal cavities.
 3. Insert a sterile swab (stick) into the neck, which is essential secretion from the red area of the throat and maxillary to take a sample from the neck. Moderately you will test the bilateral cervical tonsils and the stench of the throat to get a sample.
- d) Place the antigen extraction tube on the workbench. Place the antigen extraction buffer bottle vertically downward, squeeze the bottle to make the buffer drip freely into the extraction tube without touching the edge of the tube, and add 6 drops (about 200ul) to the extraction tube.
- e) Put the swab specimen into the extraction tube pre-added with the antigen extraction buffer, and rotate the swab about 10 times while pressing the swab head against the tube wall to release the antigen in the swab, then let it stand for about 1 minute.
- f) Remove the swab while squeezing the tip of the swab so that as much liquid in the swab can be discharged as possible. Dispose of used swabs in accordance with biohazard waste disposal methods.
- g) Install the dropper on the extraction tube and cap it tightly, and let it stand for about 1 minute.
- h) Open the aluminum foil bag and take out the test card, add 3 drops (about 100ul) into the sample hole of the test card (or use a pipette to add 100ul), and start the timer.
- i) Wait for the colored line to appear. The result should be read in 15 minutes. Do not interpret the result after 20 minutes.

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

10 Test data

10.1 TEODORO MALDONADO CARBO, Hospital in Ecuador

Testing Date	2020.11.09~2020.11.19			Remarks
Testing Method	PCR results		Total	
COVID-19 Test kit	Positive	Negative		
Positive	133	0	133	Annex 1:
Negative	0	7	7	
Total	133	7	140	

10.2 IESS LOS Ceibos del Norte de Guayaquil, Hospital in Ecuador

Testing Date	2020.11.20~2020.11.21			Remarks
Testing Method	PCR results		Total	
COVID-19 Test kit	Positive	Negative		
Positive	60	0	60	Annex 2
Negative	0	0	0	
Total	60	0	60	

10.3 Hospital Arnau, Hospital in Spain

Testing Date	2020.11.15~2020.11.17			Remarks
Testing Method	PCR results		Total	
COVID-19 Test kit	Positive	Negative		
Positive	13	0	13	Annex 3
Negative	3	4	7	
Total	16	4	20	

10.4 Laboratory of Hangzhou Singclean Medical Products Co., Ltd.

Testing Date	2020.10.13~2020.11.23			Remarks
Testing Method	PCR results		Total	
COVID-19 Test kit	Positive	Negative		
Positive	0	3	3	Annex 4
Negative	0	295	295	
Total	0	298	298	

11 Different Method Ways Summary and Analysis

Nasal Swab Method		PCR results		Total
		Positive	Negative	
COVID-19 Test kit	Positive	79	1	80
	Negative	1	80	81
Total		80	81	161

Sensitivity: $79/(79+1)$ 98.75 %
 Specificity: $80/(1+80)$ 98.77 %
 Accuracy: $(79+80)/161$ 98.76 %

Oropharyngeal Method		PCR results		Total
		Positive	Negative	
COVID-19 Test kit	Positive	96	1	97
	Negative	1	74	75
Total		97	75	172

Sensitivity: $96/(96+1)$ 98.97 %
 Specificity: $74/(1+74)$ 98.67 %
 Accuracy: $(96+74)/172$ 98.84 %

Nasopharyngeal Method		PCR results		Total
		Positive	Negative	
COVID-19 Test kit	Positive	31	1	32
	Negative	1	152	153
Total		32	153	185

Sensitivity: $31/(31+1)$ 96.88 %
 Specificity: $152/(1+152)$ 99.35 %
 Accuracy: $(31+152)/185$ 98.92 %

12 Data summary and analysis

Method		PCR results		Total
		Positive	Negative	
COVID-19 Test kit	Positive	206	3	209
	Negative	3	306	309
Total		209	309	518
Sensitivity		98.56%	95% confidence interval	95.87%~99.51%
Specificity		99.03%	95% confidence interval	97.18%~99.67%
Accuracy		98.84%	95% confidence interval	97.50%~99.47%

12.1 Sensitivity calculation

$$\text{Sensitivity} = 206 / (206 + 3) = 98.56\%$$

12.2 Specificity calculation

$$\text{Specificity} = 306 / (3 + 306) = 99.03\%$$

12.3 Accuracy calculation

$$\text{Accuracy} = (206 + 306) / 518 = 98.84\%$$

12.4 Sensitivity confidence interval calculation

$$Q1 = 2a + 1.96^2 = 2 * 206 + 1.96^2 = 415.842$$

$$Q2 = 1.96 \sqrt{1.96^2 + 4ac} / (a + c) = 1.96 \sqrt{1.96^2 + 4 * 206 * 3} / (206 + 3) = 7.759$$

$$Q3 = 2(a + c + 1.96^2) = 2 * (206 + 3 + 1.96^2) = 425.683$$

$$\text{Sensitivity confidence interval up limit} = 100\% * (Q1 - Q2) / Q3 = 100\% * (415.842 - 7.759) / 425.683 = 95.87\%$$

Sensitivity confidence interval lower limit =100%(Q1 +Q2)/Q3=100%* (415.842+7.759)
/425.683=99.51%

12.5 Specificity confidence interval calculation

$$Q1=2d+1.96^2=2*306+1.96^2=615.842$$

$$Q2=1.96\sqrt{1.96^2 + 4bd/(b + d)}=1.96\sqrt{1.96^2 + 4 * 306 * 3/(306 + 3)}=7.772$$

$$Q3=2 (b+d+1.96^2)=2*(306+3+1.96^2)=625.683$$

$$\text{Specificity confidence interval up limit} =100\%(Q1 -Q2)/Q3=100\%* (615.842-7.772)$$

$$/625.683=97.18\%$$

$$\text{Specificity confidence interval lower limit} =100\%(Q1 +Q2)/Q3=100\%* (615.842+7.772)$$

$$/625.683=99.67\%$$

12.6 Accuracy confidence interval calculation

$$Q1=2(a+d)+1.96^2=2(206+306)+1.96^2=1027.842$$

$$Q2=1.96\sqrt{1.96^2 + 4(a + d)(b + c)/n}=1.96\sqrt{1.96^2 + 4(206 + 306)(3 + 3)/518}=10.29$$

$$Q3=2 (n + 1.96^2)=2 (518+ 1.96^2)=1043.683$$

$$\text{Accuracy confidence interval up limit} =100\%(Q1 -Q2)/Q3=100\%* (1027.842-10.29) /1043.683=$$

$$97.50\%$$

$$\text{Accuracy confidence interval lower limit} =100\%(Q1+Q2)/Q3=100\%* (1027.842+10.29)$$

$$/1043.683= 99.47\%$$

12.7 Kappa

$$P_A = \frac{a+d}{n} = \frac{206+306}{518} = 0.9884$$

$$P_e = \frac{(a+b)(a+c)+(c+d)(b+d)}{n^2} = \frac{(206+3)(306+3)+(3+306)(3+306)}{518^2} = 0.5931$$

$$Kappa = \frac{P_A - P_e}{1 - P_e} = \frac{0.9884 - .5931}{1 - 0.5931} = 0.9715$$

Kappa (k): k>0.75, means good consistency; 0.40<k<0.75, not very consistent; K <0.40, poor consistency.

13 Conclusion

The expected research purpose has been achieved. The total number of samples studied is 518, of which 209 are positive and 309 are negative. Compared with PCR, the sensitivity of the product is 98.56% (confidence interval is 95.87%~99.51%), specificity is 99.03% (confidence interval is 97.18%~99.67%), and accuracy is 98.84% (confidence interval is 97.50%~99.47%). The Kappa is 0.9715, reach" K>0.75", which proves that the results of this study are in good consistency.

Annex 1:

NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method	NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method
1	F	39	Positive	Positive	Nasal Swab	37	M	44	Positive	Positive	Oropharyngeal
2	F	36	Positive	Positive	Nasal Swab	38	F	37	Positive	Positive	Oropharyngeal
3	M	50	Positive	Positive	Nasal Swab	39	M	47	Positive	Positive	Oropharyngeal
4	M	48	Positive	Positive	Nasal Swab	40	F	81	Positive	Positive	Oropharyngeal
5	M	62	Positive	Positive	Nasal Swab	41	F	42	Positive	Positive	Nasal Swab
6	F	87	Positive	Positive	Nasal Swab	42	M	45	Positive	Positive	Nasal Swab
7	F	23	Positive	Positive	Nasal Swab	43	M	60	Positive	Positive	Nasal Swab
8	M	22	Positive	Positive	Nasal Swab	44	M	52	Positive	Positive	Nasal Swab
9	F	38	Positive	Positive	Nasal Swab	45	F	86	Positive	Positive	Nasal Swab
10	F	24	Positive	Positive	Nasal Swab	46	M	63	Positive	Positive	Nasal Swab
11	M	31	Positive	Positive	Nasal Swab	47	M	56	Positive	Positive	Nasal Swab
12	M	63	Positive	Positive	Nasal Swab	48	M	24	Positive	Positive	Nasal Swab
13	F	41	Positive	Positive	Nasal Swab	49	F	34	Positive	Positive	Nasal Swab
14	M	37	Positive	Positive	Nasal Swab	50	M	42	Positive	Positive	Nasal Swab
15	M	28	Positive	Positive	Nasal Swab	51	M	49	Positive	Positive	Nasal Swab
16	F	32	Positive	Positive	Nasal Swab	52	M	52	Positive	Positive	Nasal Swab
17	F	24	Positive	Positive	Nasal Swab	53	M	28	Negative	Negative	Nasal Swab
18	M	49	Positive	Positive	Nasal Swab	54	F	73	Positive	Positive	Nasal Swab
19	M	34	Positive	Positive	Nasal Swab	55	M	48	Negative	Negative	Nasal Swab
20	F	53	Positive	Positive	Nasal Swab	56	M	42	Negative	Negative	Nasal Swab
21	F	25	Positive	Positive	Oropharyngeal	57	M	38	Positive	Positive	Nasal Swab
22	M	38	Positive	Positive	Oropharyngeal	58	F	44	Positive	Positive	Nasal Swab
23	F	74	Positive	Positive	Oropharyngeal	59	M	27	Negative	Negative	Nasal Swab
24	M	33	Positive	Positive	Oropharyngeal	60	F	46	Negative	Negative	Nasal Swab
25	F	31	Positive	Positive	Oropharyngeal	61	F	33	Negative	Negative	Nasopharyngeal
26	F	56	Positive	Positive	Oropharyngeal	62	F	52	Negative	Negative	Nasopharyngeal
27	F	34	Positive	Positive	Oropharyngeal	63	F	80	Positive	Positive	Nasopharyngeal
28	F	69	Positive	Positive	Oropharyngeal	64	F	24	Positive	Positive	Nasopharyngeal
29	F	35	Positive	Positive	Oropharyngeal	65	F	51	Positive	Positive	Nasopharyngeal
30	F	28	Positive	Positive	Oropharyngeal	66	M	61	Positive	Positive	Nasopharyngeal
31	M	40	Positive	Positive	Oropharyngeal	67	F	52	Positive	Positive	Nasopharyngeal
32	M	61	Positive	Positive	Oropharyngeal	68	M	18	Positive	Positive	Nasopharyngeal
33	M	29	Positive	Positive	Oropharyngeal	69	F	56	Positive	Positive	Nasopharyngeal
34	F	46	Positive	Positive	Oropharyngeal	70	M	52	Positive	Positive	Nasopharyngeal
35	F	58	Positive	Positive	Oropharyngeal	71	M	54	Positive	Positive	Nasopharyngeal
36	F	58	Positive	Positive	Oropharyngeal	72	F	55	Positive	Positive	Nasopharyngeal

NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method	NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method
73	M	44	Positive	Positive	Nasopharyngeal	107	M	54	Positive	Positive	Nasal Swab
74	M	48	Positive	Positive	Nasopharyngeal	108	M	29	Positive	Positive	Nasal Swab
75	M	43	Positive	Positive	Nasopharyngeal	109	M	50	Positive	Positive	Nasal Swab
76	M	37	Positive	Positive	Nasopharyngeal	110	M	27	Positive	Positive	Nasal Swab
77	M	42	Positive	Positive	Nasopharyngeal	111	M	25	Positive	Positive	Nasal Swab
78	M	57	Positive	Positive	Nasopharyngeal	112	F	35	Positive	Positive	Nasal Swab
79	M	65	Positive	Positive	Nasopharyngeal	113	M	23	Positive	Positive	Nasal Swab
80	M	41	Positive	Positive	Nasopharyngeal	114	M	22	Positive	Positive	Nasal Swab
81	M	31	Positive	Positive	Oropharyngeal	115	F	51	Positive	Positive	Nasal Swab
82	M	65	Positive	Positive	Oropharyngeal	116	M	35	Positive	Positive	Nasal Swab
83	M	59	Positive	Positive	Oropharyngeal	117	F	48	Positive	Positive	Nasal Swab
84	M	48	Positive	Positive	Oropharyngeal	118	F	35	Positive	Positive	Nasal Swab
85	M	56	Positive	Positive	Oropharyngeal	119	F	33	Positive	Positive	Nasal Swab
86	M	63	Positive	Positive	Oropharyngeal	120	M	32	Positive	Positive	Nasal Swab
87	M	66	Positive	Positive	Oropharyngeal	121	F	42	Positive	Positive	Nasal Swab
88	M	58	Positive	Positive	Oropharyngeal	122	M	43	Positive	Positive	Nasal Swab
89	M	42	Positive	Positive	Oropharyngeal	123	F	46	Positive	Positive	Nasal Swab
90	M	54	Positive	Positive	Oropharyngeal	124	F	73	Positive	Positive	Nasal Swab
91	M	59	Positive	Positive	Nasopharyngeal	125	M	39	Positive	Positive	Nasal Swab
92	F	43	Positive	Positive	Nasopharyngeal	126	F	19	Positive	Positive	Nasal Swab
93	M	66	Positive	Positive	Nasopharyngeal	127	M	20	Positive	Positive	Nasal Swab
94	M	38	Positive	Positive	Nasopharyngeal	128	F	20	Positive	Positive	Nasal Swab
95	M	33	Positive	Positive	Nasopharyngeal	129	F	25	Positive	Positive	Nasal Swab
96	M	31	Positive	Positive	Nasopharyngeal	130	F	63	Positive	Positive	Nasal Swab
97	M	44	Positive	Positive	Nasopharyngeal	131	F	29	Positive	Positive	Nasal Swab
98	M	59	Positive	Positive	Nasopharyngeal	132	F	39	Positive	Positive	Nasal Swab
99	M	60	Positive	Positive	Nasopharyngeal	133	M	77	Positive	Positive	Nasal Swab
100	M	38	Positive	Positive	Nasopharyngeal	134	F	65	Positive	Positive	Nasal Swab
101	M	63	Positive	Positive	Nasal Swab	135	M	60	Positive	Positive	Nasal Swab
102	M	60	Positive	Positive	Nasal Swab	136	M	44	Positive	Positive	Nasal Swab
103	F	55	Positive	Positive	Nasal Swab	137	F	41	Positive	Positive	Nasal Swab
104	M	33	Positive	Positive	Nasal Swab	138	M	80	Positive	Positive	Nasal Swab
105	F	48	Positive	Positive	Nasal Swab	139	M	42	Positive	Positive	Nasal Swab
106	F	52	Positive	Positive	Nasal Swab	140	F	59	Positive	Positive	Nasal Swab

Annex 2:

NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method	NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method
1	M	54	Positive	Positive	Oropharyngeal	31	M	66	Positive	Positive	Oropharyngeal
2	M	33	Positive	Positive	Oropharyngeal	32	F	64	Positive	Positive	Oropharyngeal
3	M	22	Positive	Positive	Oropharyngeal	33	F	28	Positive	Positive	Oropharyngeal
4	M	20	Positive	Positive	Oropharyngeal	34	F	67	Positive	Positive	Oropharyngeal
5	F	72	Positive	Positive	Oropharyngeal	35	M	21	Positive	Positive	Oropharyngeal
6	F	47	Positive	Positive	Oropharyngeal	36	M	37	Positive	Positive	Oropharyngeal
7	F	76	Positive	Positive	Oropharyngeal	37	F	54	Positive	Positive	Oropharyngeal
8	M	29	Positive	Positive	Oropharyngeal	38	M	34	Positive	Positive	Oropharyngeal
9	M	47	Positive	Positive	Oropharyngeal	39	M	41	Positive	Positive	Oropharyngeal
10	F	28	Positive	Positive	Oropharyngeal	40	M	30	Positive	Positive	Oropharyngeal
11	F	32	Positive	Positive	Oropharyngeal	41	F	25	Positive	Positive	Oropharyngeal
12	F	30	Positive	Positive	Oropharyngeal	42	M	63	Positive	Positive	Oropharyngeal
13	M	28	Positive	Positive	Oropharyngeal	43	M	46	Positive	Positive	Oropharyngeal
14	M	18	Positive	Positive	Oropharyngeal	44	M	27	Positive	Positive	Oropharyngeal
15	M	21	Positive	Positive	Oropharyngeal	45	F	35	Positive	Positive	Oropharyngeal
16	F	29	Positive	Positive	Oropharyngeal	46	M	22	Positive	Positive	Oropharyngeal
17	F	41	Positive	Positive	Oropharyngeal	47	M	43	Positive	Positive	Oropharyngeal
18	F	59	Positive	Positive	Oropharyngeal	48	M	27	Positive	Positive	Oropharyngeal
19	M	61	Positive	Positive	Oropharyngeal	49	F	92	Positive	Positive	Oropharyngeal
20	F	48	Positive	Positive	Oropharyngeal	50	M	94	Positive	Positive	Oropharyngeal
21	M	41	Positive	Positive	Oropharyngeal	51	M	30	Positive	Positive	Oropharyngeal
22	F	44	Positive	Positive	Oropharyngeal	52	F	34	Positive	Positive	Oropharyngeal
23	M	20	Positive	Positive	Oropharyngeal	53	F	48	Positive	Positive	Oropharyngeal
24	M	56	Positive	Positive	Oropharyngeal	54	M	50	Positive	Positive	Oropharyngeal
25	F	24	Positive	Positive	Oropharyngeal	55	F	42	Positive	Positive	Oropharyngeal
26	M	28	Positive	Positive	Oropharyngeal	56	M	32	Positive	Positive	Oropharyngeal
27	F	49	Positive	Positive	Oropharyngeal	57	F	35	Positive	Positive	Oropharyngeal
28	M	35	Positive	Positive	Oropharyngeal	58	F	60	Positive	Positive	Oropharyngeal
29	F	74	Positive	Positive	Oropharyngeal	59	M	25	Positive	Positive	Oropharyngeal
30	F	29	Positive	Positive	Oropharyngeal	60	M	30	Positive	Positive	Oropharyngeal

Annex 3:

NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method	NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method
1	F	23	Positive	Positive	Oropharyngeal	11	F	44	Positive	Positive	Nasal Swab
2	M	14	Positive	Positive	Oropharyngeal	12	M	47	Positive	Positive	Nasal Swab
3	M	51	Negative	Negative	Oropharyngeal	13	M	37	Negative	Positive	Nasal Swab
4	M	67	Positive	Positive	Oropharyngeal	14	M	51	Positive	Positive	Nasal Swab
5	F	44	Positive	Positive	Oropharyngeal	15	F	75	Positive	Positive	Nasal Swab
6	F	26	Negative	Negative	Oropharyngeal	16	F	60	Negative	Negative	Nasal Swab
7	F	38	Positive	Positive	Nasopharyngeal	17	F	75	Negative	Negative	Oropharyngeal
8	M	36	Positive	Positive	Nasopharyngeal	18	F	34	Positive	Positive	Oropharyngeal
9	F	35	Negative	Positive	Nasopharyngeal	19	M	25	Negative	Positive	Oropharyngeal
10	F	43	Positive	Positive	Nasopharyngeal	20	M	75	Positive	Positive	Oropharyngeal

Annex 4:

NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method	NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method
1	F	32	Negative	Negative	Nasopharyngeal	37	M	28	Negative	Negative	Nasopharyngeal
2	F	33	Negative	Negative	Nasopharyngeal	38	F	24	Negative	Negative	Nasopharyngeal
3	F	23	Negative	Negative	Nasopharyngeal	39	M	39	Negative	Negative	Nasopharyngeal
4	F	35	Negative	Negative	Nasopharyngeal	40	F	49	Negative	Negative	Nasopharyngeal
5	F	35	Negative	Negative	Nasopharyngeal	41	M	31	Negative	Negative	Nasopharyngeal
6	M	30	Negative	Negative	Nasopharyngeal	42	F	58	Negative	Negative	Nasopharyngeal
7	F	39	Negative	Negative	Nasopharyngeal	43	M	35	Negative	Negative	Nasopharyngeal
8	F	30	Negative	Negative	Nasopharyngeal	44	F	40	Negative	Negative	Nasopharyngeal
9	F	28	Negative	Negative	Nasopharyngeal	45	M	33	Negative	Negative	Nasopharyngeal
10	M	28	Negative	Negative	Nasopharyngeal	46	M	63	Negative	Negative	Nasopharyngeal
11	F	30	Negative	Negative	Nasopharyngeal	47	F	33	Negative	Negative	Nasopharyngeal
12	F	25	Negative	Negative	Nasopharyngeal	48	F	30	Negative	Negative	Nasopharyngeal
13	F	44	Negative	Negative	Nasopharyngeal	49	F	24	Negative	Negative	Nasopharyngeal
14	F	37	Negative	Negative	Nasopharyngeal	50	M	34	Negative	Negative	Nasopharyngeal
15	F	32	Negative	Negative	Nasopharyngeal	51	M	42	Negative	Negative	Nasopharyngeal
16	F	38	Negative	Negative	Nasopharyngeal	52	F	37	Negative	Negative	Nasopharyngeal
17	F	31	Negative	Negative	Nasopharyngeal	53	F	39	Negative	Negative	Nasopharyngeal
18	M	29	Negative	Negative	Nasopharyngeal	54	F	33	Negative	Negative	Nasopharyngeal
19	F	31	Negative	Negative	Nasopharyngeal	55	F	35	Negative	Negative	Nasopharyngeal
20	M	43	Negative	Negative	Nasopharyngeal	56	M	26	Negative	Negative	Nasopharyngeal
21	M	35	Negative	Negative	Nasopharyngeal	57	M	22	Negative	Negative	Nasopharyngeal
22	F	31	Negative	Negative	Nasopharyngeal	58	M	35	Negative	Negative	Nasopharyngeal
23	F	39	Negative	Negative	Nasopharyngeal	59	F	28	Negative	Negative	Nasopharyngeal
24	F	33	Negative	Negative	Nasopharyngeal	60	F	30	Negative	Negative	Nasopharyngeal
25	F	50	Negative	Negative	Nasopharyngeal	61	F	37	Negative	Negative	Nasopharyngeal
26	F	37	Negative	Negative	Nasopharyngeal	62	F	37	Negative	Negative	Nasopharyngeal
27	F	34	Negative	Negative	Nasopharyngeal	63	F	27	Negative	Negative	Nasopharyngeal
28	F	32	Negative	Negative	Nasopharyngeal	64	M	43	Negative	Negative	Nasopharyngeal
29	M	22	Negative	Negative	Nasopharyngeal	65	M	37	Negative	Negative	Nasopharyngeal
30	F	42	Negative	Negative	Nasopharyngeal	66	F	60	Negative	Negative	Nasopharyngeal
31	F	58	Negative	Negative	Nasopharyngeal	67	M	44	Negative	Negative	Nasopharyngeal
32	M	25	Negative	Negative	Nasopharyngeal	68	F	37	Negative	Negative	Nasopharyngeal
33	M	26	Negative	Negative	Nasopharyngeal	69	F	40	Negative	Negative	Nasopharyngeal
34	F	37	Negative	Negative	Nasopharyngeal	70	F	33	Negative	Negative	Nasopharyngeal
35	F	28	Negative	Negative	Nasopharyngeal	71	F	30	Negative	Negative	Nasopharyngeal
36	F	32	Negative	Negative	Nasopharyngeal	72	M	23	Negative	Negative	Nasopharyngeal

NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method	NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method
73	F	37	Negative	Negative	Nasopharyngeal	111	F	31	Negative	Negative	Oropharyngeal
74	M	25	Negative	Negative	Nasopharyngeal	112	F	34	Negative	Negative	Oropharyngeal
75	M	27	Negative	Negative	Nasopharyngeal	113	F	46	Negative	Negative	Oropharyngeal
76	F	22	Negative	Negative	Nasopharyngeal	114	M	33	Negative	Negative	Oropharyngeal
77	F	37	Negative	Negative	Nasopharyngeal	115	M	41	Negative	Negative	Oropharyngeal
78	F	35	Negative	Negative	Nasopharyngeal	116	F	36	Negative	Negative	Oropharyngeal
79	M	36	Negative	Negative	Nasopharyngeal	117	F	31	Negative	Negative	Oropharyngeal
80	M	22	Negative	Negative	Nasopharyngeal	118	F	41	Negative	Negative	Oropharyngeal
81	M	30	Negative	Negative	Nasopharyngeal	119	F	34	Negative	Negative	Oropharyngeal
82	M	35	Negative	Negative	Nasopharyngeal	120	F	33	Negative	Negative	Oropharyngeal
83	M	27	Negative	Negative	Nasopharyngeal	121	M	38	Negative	Negative	Oropharyngeal
84	M	45	Negative	Negative	Nasopharyngeal	122	M	48	Negative	Negative	Oropharyngeal
85	M	34	Negative	Negative	Nasopharyngeal	123	F	35	Negative	Negative	Oropharyngeal
86	M	46	Negative	Negative	Nasopharyngeal	124	M	25	Negative	Negative	Oropharyngeal
87	F	20	Negative	Negative	Nasopharyngeal	125	M	29	Negative	Negative	Oropharyngeal
88	F	40	Negative	Negative	Nasopharyngeal	126	F	37	Negative	Negative	Oropharyngeal
89	M	34	Negative	Negative	Nasopharyngeal	127	F	41	Negative	Negative	Oropharyngeal
90	M	28	Negative	Negative	Nasopharyngeal	128	F	37	Negative	Negative	Oropharyngeal
91	F	42	Negative	Negative	Nasopharyngeal	129	F	30	Negative	Negative	Oropharyngeal
92	F	28	Negative	Negative	Nasal Swab	130	F	34	Negative	Negative	Nasopharyngeal
93	M	29	Negative	Negative	Nasal Swab	131	F	26	Negative	Negative	Nasopharyngeal
94	F	34	Negative	Negative	Nasal Swab	132	M	38	Negative	Negative	Nasopharyngeal
95	M	37	Negative	Negative	Nasal Swab	133	F	42	Negative	Negative	Nasopharyngeal
96	M	35	Negative	Negative	Nasal Swab	134	F	37	Negative	Negative	Oropharyngeal
97	M	22	Negative	Negative	Nasal Swab	135	M	45	Negative	Negative	Oropharyngeal
98	M	37	Negative	Negative	Nasal Swab	136	F	28	Negative	Negative	Oropharyngeal
99	F	39	Negative	Negative	Nasal Swab	137	F	29	Negative	Negative	Oropharyngeal
100	M	53	Negative	Negative	Nasal Swab	138	F	27	Negative	Negative	Oropharyngeal
101	M	51	Negative	Negative	Nasal Swab	139	F	39	Negative	Negative	Nasopharyngeal
102	M	24	Negative	Negative	Nasal Swab	140	F	25	Negative	Negative	Nasopharyngeal
103	F	34	Negative	Negative	Oropharyngeal	141	F	33	Negative	Negative	Nasopharyngeal
104	F	32	Negative	Negative	Oropharyngeal	142	F	27	Negative	Negative	Nasopharyngeal
105	M	22	Negative	Negative	Oropharyngeal	143	F	31	Negative	Negative	Nasopharyngeal
106	F	29	Negative	Negative	Oropharyngeal	144	F	32	Negative	Negative	Nasopharyngeal
107	M	34	Negative	Negative	Oropharyngeal	145	F	29	Negative	Negative	Nasopharyngeal
108	M	41	Negative	Negative	Oropharyngeal	146	F	36	Negative	Negative	Nasopharyngeal
109	F	35	Negative	Negative	Oropharyngeal	147	F	35	Negative	Negative	Nasopharyngeal
110	F	28	Negative	Negative	Oropharyngeal	148	F	33	Negative	Negative	Nasopharyngeal

NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method	NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method
149	F	33	Negative	Negative	Nasal Swab	187	F	23	Negative	Negative	Oropharyngeal
150	F	41	Negative	Negative	Nasal Swab	188	F	39	Negative	Negative	Oropharyngeal
151	F	36	Negative	Negative	Nasal Swab	189	F	23	Negative	Negative	Oropharyngeal
152	F	33	Negative	Negative	Nasal Swab	190	M	30	Negative	Negative	Oropharyngeal
153	F	33	Negative	Negative	Nasal Swab	191	M	28	Negative	Negative	Oropharyngeal
154	M	24	Negative	Negative	Nasal Swab	192	M	25	Negative	Negative	Oropharyngeal
155	F	35	Negative	Negative	Nasal Swab	193	F	38	Negative	Negative	Oropharyngeal
156	M	28	Negative	Negative	Nasal Swab	194	M	34	Negative	Negative	Oropharyngeal
157	F	29	Negative	Negative	Nasal Swab	195	M	38	Negative	Negative	Oropharyngeal
158	F	47	Negative	Negative	Nasal Swab	196	F	24	Positive	Negative	Oropharyngeal
159	M	27	Negative	Negative	Nasal Swab	197	F	29	Negative	Negative	Oropharyngeal
160	M	31	Negative	Negative	Nasal Swab	198	F	29	Negative	Negative	Oropharyngeal
161	F	32	Negative	Negative	Nasal Swab	199	F	30	Negative	Negative	Oropharyngeal
162	M	32	Negative	Negative	Nasal Swab	200	F	36	Negative	Negative	Nasal Swab
163	F	32	Negative	Negative	Nasal Swab	201	M	31	Negative	Negative	Nasal Swab
164	F	34	Negative	Negative	Nasal Swab	202	F	59	Negative	Negative	Nasal Swab
165	M	32	Negative	Negative	Nasal Swab	203	F	31	Negative	Negative	Nasal Swab
166	M	22	Negative	Negative	Nasal Swab	204	M	30	Negative	Negative	Nasal Swab
167	F	35	Negative	Negative	Nasal Swab	205	F	26	Positive	Negative	Nasal Swab
168	M	28	Negative	Negative	Nasal Swab	206	F	36	Negative	Negative	Nasal Swab
169	F	38	Negative	Negative	Nasal Swab	207	F	44	Negative	Negative	Nasal Swab
170	M	30	Negative	Negative	Nasopharyngeal	208	F	39	Negative	Negative	Nasal Swab
171	M	28	Negative	Negative	Nasopharyngeal	209	M	38	Negative	Negative	Nasal Swab
172	F	37	Negative	Negative	Nasopharyngeal	210	M	38	Negative	Negative	Nasal Swab
173	M	22	Negative	Negative	Nasopharyngeal	211	F	28	Negative	Negative	Nasal Swab
174	F	27	Negative	Negative	Nasopharyngeal	212	F	27	Negative	Negative	Nasal Swab
175	F	33	Negative	Negative	Nasopharyngeal	213	F	34	Negative	Negative	Nasal Swab
176	F	49	Negative	Negative	Nasopharyngeal	214	M	23	Negative	Negative	Nasal Swab
177	F	42	Negative	Negative	Nasopharyngeal	215	M	28	Negative	Negative	Nasal Swab
178	F	27	Positive	Negative	Nasopharyngeal	216	M	27	Negative	Negative	Nasal Swab
179	F	39	Negative	Negative	Nasopharyngeal	217	F	22	Negative	Negative	Nasal Swab
180	M	45	Negative	Negative	Nasopharyngeal	218	F	29	Negative	Negative	Nasal Swab
181	F	35	Negative	Negative	Nasopharyngeal	219	F	33	Negative	Negative	Nasal Swab
182	F	39	Negative	Negative	Nasopharyngeal	220	F	22	Negative	Negative	Nasal Swab
183	F	30	Negative	Negative	Nasopharyngeal	221	F	27	Negative	Negative	Nasal Swab
184	F	29	Negative	Negative	Nasopharyngeal	222	M	27	Negative	Negative	Nasal Swab
185	F	35	Negative	Negative	Nasopharyngeal	223	M	25	Negative	Negative	Nasal Swab
186	F	41	Negative	Negative	Nasopharyngeal	224	F	28	Negative	Negative	Nasal Swab

NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method	NO.	Geder	Age	COVID-19 Test kit	RT-PCR	Sample Collection Method
225	M	36	Negative	Negative	Nasal Swab	262	F	33	Negative	Negative	Nasopharyngeal
226	M	32	Negative	Negative	Nasal Swab	263	M	30	Negative	Negative	Nasopharyngeal
227	M	37	Negative	Negative	Nasal Swab	264	F	29	Negative	Negative	Nasopharyngeal
228	F	25	Negative	Negative	Nasal Swab	265	M	38	Negative	Negative	Nasopharyngeal
229	M	35	Negative	Negative	Nasal Swab	266	F	22	Negative	Negative	Nasopharyngeal
230	F	34	Negative	Negative	Nasal Swab	267	F	25	Negative	Negative	Nasopharyngeal
231	F	29	Negative	Negative	Nasal Swab	268	F	30	Negative	Negative	Nasopharyngeal
232	M	22	Negative	Negative	Nasal Swab	269	F	36	Negative	Negative	Nasopharyngeal
233	M	23	Negative	Negative	Nasal Swab	270	M	35	Negative	Negative	Nasopharyngeal
234	F	25	Negative	Negative	Nasal Swab	271	M	30	Negative	Negative	Nasopharyngeal
235	M	29	Negative	Negative	Nasal Swab	272	F	38	Negative	Negative	Nasopharyngeal
236	M	27	Negative	Negative	Nasal Swab	273	F	33	Negative	Negative	Oropharyngeal
237	M	23	Negative	Negative	Nasal Swab	274	M	36	Negative	Negative	Oropharyngeal
238	M	26	Negative	Negative	Nasal Swab	275	M	46	Negative	Negative	Oropharyngeal
239	M	27	Negative	Negative	Nasal Swab	276	M	38	Negative	Negative	Oropharyngeal
240	M	35	Negative	Negative	Nasal Swab	277	M	42	Negative	Negative	Oropharyngeal
241	F	30	Negative	Negative	Nasal Swab	278	M	29	Negative	Negative	Oropharyngeal
242	M	34	Negative	Negative	Nasal Swab	279	M	31	Negative	Negative	Oropharyngeal
243	M	29	Negative	Negative	Nasal Swab	280	F	31	Negative	Negative	Oropharyngeal
244	M	30	Negative	Negative	Nasopharyngeal	281	F	37	Negative	Negative	Oropharyngeal
245	M	28	Negative	Negative	Nasopharyngeal	282	M	38	Negative	Negative	Oropharyngeal
246	M	23	Negative	Negative	Nasopharyngeal	283	F	29	Negative	Negative	Oropharyngeal
247	F	29	Negative	Negative	Nasopharyngeal	284	F	27	Negative	Negative	Oropharyngeal
248	F	32	Negative	Negative	Nasopharyngeal	285	M	43	Negative	Negative	Oropharyngeal
249	M	26	Negative	Negative	Nasopharyngeal	286	M	31	Negative	Negative	Oropharyngeal
250	M	22	Negative	Negative	Nasopharyngeal	287	M	33	Negative	Negative	Oropharyngeal
251	F	28	Negative	Negative	Nasopharyngeal	288	M	31	Negative	Negative	Oropharyngeal
252	M	26	Negative	Negative	Nasopharyngeal	289	M	32	Negative	Negative	Oropharyngeal
253	M	39	Negative	Negative	Nasopharyngeal	290	M	34	Negative	Negative	Oropharyngeal
254	M	23	Negative	Negative	Nasopharyngeal	291	F	29	Negative	Negative	Oropharyngeal
255	M	30	Negative	Negative	Nasopharyngeal	292	F	26	Negative	Negative	Oropharyngeal
256	F	52	Negative	Negative	Nasopharyngeal	293	F	30	Negative	Negative	Oropharyngeal
257	M	29	Negative	Negative	Nasopharyngeal	294	F	36	Negative	Negative	Oropharyngeal
258	F	58	Negative	Negative	Nasopharyngeal	295	M	37	Negative	Negative	Oropharyngeal
259	F	51	Negative	Negative	Nasopharyngeal	296	M	30	Negative	Negative	Oropharyngeal
260	M	28	Negative	Negative	Nasopharyngeal	297	F	27	Negative	Negative	Oropharyngeal
261	F	37	Negative	Negative	Nasopharyngeal	298	F	31	Negative	Negative	Oropharyngeal