

SARS-CoV-2 Antigen Rapid Test Clinical Evaluation Report

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1. Introduction

Medomics SARS-CoV-2 Antigen Rapid Test is intended for rapid, qualitative detection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) antigen (Ag) extracted from the swab specimen in vitro with an immunochromatographic assay.

Medomics SARS-CoV-2 Antigen Rapid Test is based on the test principle of colloidal gold immunochromatography and a double antibody sandwich assay for determination of SARS-CoV-2 antigen extracted from the swab specimen. The test cassette contains (1) colloidal gold-labeled anti-SARS-CoV-2 antibody, (2) one detection line (T line) and one quality control line (C) fixed on a nitrocellulose membrane. T is fixed with another anti-SARS-CoV-2 antibody for detecting the novel coronavirus. The quality control antibody is fixed on the C line.

When the appropriate amount of test sample treated with lysis buffer is added to the sample well of the test cassette, the sample will move forward along the test strip via capillary action. If the sample contains the novel coronavirus antigens and concentration of antigens is higher than the limit of detection, the antigen will bind to the colloidal gold-labeled anti-SARS-CoV-2 antibody. The immune complex will be captured by another anti-SARS-CoV-2 antibody immobilized on the membrane in the Test Region (T), forming a red T line and indicating a positive result for the novel coronavirus. If the sample contains no novel coronavirus antigens or the antigens concentration is lower than the limit of detection, a negative result is displayed.

Additionally, the test cassette also contains a quality control line C in the Control Region (C). Regardless of what antigens are present the C line should appear to indicate that the sample has been transported properly through the membrane. If the C line does not appear it indicates that the test result is invalid and the sample is required to retest.

2. Purpose and Evaluation Method

In this study, based on the real-time Polymerase Chain Reaction (RT-PCR) assay (coronaviruses 2019-nCoV by real-time PCR (hereinafter reference kit) manufactured by Sansure Biotech Inc. that approved for listing in the EU) as contrastive method, clinical application study of Medomics SARS-CoV-2 Antigen Rapid Test was performed to verify the safety and effectiveness.

3. Clinical Sample

A total of 807 clinical samples (593 nasopharyngeal or throat swabs and 214 anterior nasal swabs) were validated at Jiangsu Provincial Center for Disease Control and Prevention (Jiangsu CDC), Nanjing, China. Two swabs were collected from one person and were tested with Medomics SARS-CoV-2 Antigen Rapid Test and coronaviruses 2019-nCoV by real-time PCR separately. All swabs were stored at -80°C.

1) Positive specimens: 332 cases from RT-PCR confirmed containing 40 Delta viral mutant (B.1.617.2) are included in the study.

2) Negative specimens: 475 cases from RT-PCR confirmed with 305 non-infected individuals negative samples, 109 from hospitalised patients and 61 of potentially interfering and cross-reactive samples, performed saliva Ag tests.

The clinical performance evaluation conducted in the European population complies with the requirements of MDCG 2021-21 Guidance on performance evaluation of SARS-CoV-2 in vitro diagnostic medical Devices (August 2021).

4. Test kit information

Table 1 Information on Reagents Used on the Evaluation

Antigen Test	SARS-CoV-2 Antigen Rapid Test		
Specification	1 pc/box	Lot No.:	20201120
Expiration Date	2022-11-19	Storage:	2-30°C
Manufacturer	Jiangsu Medomics Medical Technology Co.,Ltd.		

Table 2 Information of PCR contrast reagent

Reference Method	Reagent kit for detecting RNA of coronaviruses 2019-nCoV by real-time PCR		
Registration Certificate for Medical Device of the PR China	20203400064		
Specification	24 tests/Kit	Shelf-life	12 months
Storage:	Store at -20±5°C, keep away from light		
Manufacturer	Sansure Biotech Inc.		
Regulatory Status	CE Marked		
Amplification instruments	MA-6000		

5. Clinical Trial Period

6. Results and Analysis

6.1 Test procedure

Throughout the evaluation, all samples should be tested with the Medomics SARS-CoV-2 Antigen Rapid Test according to the Instruction for Use.

6.2 Comparative Analysis of Results

Trial Completion

A total of 332 PCR positive cases and 475 PCR negative cases were included in this trial.

Major Effectiveness Statistical Methods

Compared with RT-PCR results, the sensitivity, specificity, positive predictive value (PPV), negative predictive value (NPV), accuracy and the 95% confidence interval (CI) of test kit were analyzed. Confidence intervals for sensitivity, specificity, PPV, NPV and accuracy are calculated per a score method described in CLSI EP12-A2 (2008). Sensitivity, specificity, PPV, NPV, accuracy: range from 0%~100%, the closer the value is to 100%, the higher the degree of compliance with clinical diagnosis.

6.3 Result Analysis

Test results are shown as Table 1 and Table 2, clinical results are detailed in Annex I Clinical verification data list.

Table 3: 2×2 Contingency Table Analysis of RT-PCR Results and Evaluation Reagent Test Results for Nasopharyngeal swabs.

	RT-PCR		
Medomics COVID-19 Ag test	Positive	Negative	Total
Positive	140	0	140
Negative	1	230	231
Total	141	230	371
Sensitivity: 99.29% (96.11%~99.98%)			
Specificity: 100.00% (98.41%~100.00%)			
PPV: 100.00% (97.40%~100.00%)			
NPV: 99.57% (97.61%~99.99%)			

Accuracy: 99.73% (98.51%~99.99%)

Table 4: 2×2 Contingency Table Analysis of RT-PCR Results and Evaluation Reagent Test Results for Throat swabs.

Medomics COVID-19 Ag test	RT-PCR		Total
	Positive	Negative	
Positive	80	0	80
Negative	3	139	142
Total	83	139	222

Sensitivity: 96.39% (89.80%~99.25%)
 Specificity: 100.00% (97.38%~100.00%)
 PPV: 100.00% (95.49%~100.00%)
 NPV: 97.89% (93.95%~99.56%)
 Accuracy: 98.65% (96.10%~99.72%)

Table 5: 2×2 Contingency Table Analysis of RT-PCR Results and Evaluation Reagent Test Results for anterior nasal swabs

Medomics COVID-19 Ag test	RT-PCR		Total
	Positive	Negative	
Positive	104	1	105
Negative	4	105	109
Total	108	106	214

Sensitivity: 96.30% (90.79%~98.98%)
 Specificity: 99.06% (94.86%~99.98%)
 PPV: 99.05% (94.81%~99.98%)
 NPV: 96.33% (90.87%~98.99%)
 Accuracy: 97.66% (94.63%~99.24%)

Explanation of terms

Sensitivity = True Positives / (True Positives + False Negatives)

Specificity = True Negatives / (True Negatives + False Positives)

PPV (Positive Predictive Value) = True Positives / (True Positives + False Positives)

NPV (Negative Predictive Value) = True Negatives / (True Negatives + False Negatives)

Accuracy = (True Negatives + True Positives) / Total Samples

The performance of Medomics COVID-19 Antigen Test Kit was established with 371 nasopharyngeal collected from clinical patients. The SARS-CoV-2 antigen detection results of 141 positive samples and 230 negative samples were consistent with RT-PCR results. 1 case was confirmed RT-PCR positive and mean while tested negative by Medomics SARS-CoV-2 Antigen Rapid Test.

The performance of Medomics COVID-19 Antigen Test Kit was established with 222 throat swabs collected from clinical patients. The SARS-CoV-2 antigen detection results of 83 positive samples and 139 negative samples were consistent with RT-PCR results. 3 cases were confirmed RT-PCR positive and mean while tested negative by Medomics SARS-CoV-2 Antigen Rapid Test.

The performance of Medomics COVID-19 Antigen Test Kit was established with 214 anterior nasal swabs collected from clinical patients. The SARS-CoV-2 antigen detection results of 108 positive samples and 106 negative samples were consistent with RT-PCR results. 4 cases were confirmed RT-PCR positive and mean while tested negative by Medomics SARS-CoV-2 Antigen Rapid Test(LFIA) and 1 case was confirmed RT-PCR negative and meanwhile tested positive by Medomics SARS-CoV-2 Antigen Rapid Test(LFIA).

7. Conclusion

In the present study, the SARS-CoV-2 Antigen Rapid Test by Jiangsu Medomics Medical Technology Co.,Ltd. has shown high sensitivity, specificity, and total accuracy on samples from SARS-CoV-2 suspects. The test results are highly accurate and not affected by other respiratory pathogens that commonly found in clinical samples. The test result complies with the MDCG-21/2021 standard.

In summary, the SARS-CoV-2 Antigen Rapid Test has shown satisfying sensitivity, specificity, and total accuracy in the present evaluation. It can be used as a rapid tool to assist the early diagnosis of COVID-19 cases.

8. Reference

MDCG 2021-21 Guidance on performance evaluation of SARS-CoV-2 in vitro diagnostic medical devices

Annex : Test results on 40 Delta viral mutants

No.	Age	Gender	PCR Results	Ct ORF1ab gene	Ag Result	Line intensity	Comment	Sample Type
1	36	F	positive	33.45	negative	(-)	fail	throat swab
2	11	F	positive	24.15	positive	(+)	passed	throat swab
3	66	F	positive	26.67	positive	(+)	passed	throat swab
4	17	F	positive	16.56	positive	(+++)	passed	throat swab
5	42	F	positive	24.04	positive	(++)	passed	throat swab
6	8	F	positive	25.9	positive	(++)	passed	throat swab
7	42	F	positive	15.84	positive	(+++)	passed	throat swab
8	47	M	positive	24.36	positive	(+)	passed	throat swab
9	23	F	positive	18.32	positive	(++)	passed	throat swab
10	68	M	positive	13.23	positive	(+++)	passed	throat swab
11	33	M	positive	17.56	positive	(++)	passed	throat swab
12	8	F	positive	15.31	positive	(++)	passed	throat swab
13	49	F	positive	14.16	positive	(+++)	passed	throat swab
14	20	M	positive	16.81	positive	(+++)	passed	throat swab
15	19	F	positive	24.75	positive	(+)	passed	throat swab
16	22	F	positive	14.92	positive	(++)	passed	nasopharyngeal swab
17	72	F	positive	15.07	positive	(+++)	passed	nasopharyngeal swab
18	44	M	positive	22.51	positive	(++)	passed	nasopharyngeal swab
19	11	M	positive	20.32	positive	(++)	passed	nasopharyngeal swab
20	65	M	positive	30.72	negative	(-)	fail	nasopharyngeal swab
21	7	M	positive	17.1	positive	(++)	passed	nasopharyngeal swab
22	43	F	positive	25.42	positive	(+)	passed	nasopharyngeal swab
23	20	M	positive	22.32	positive	(+)	passed	nasopharyngeal swab
24	15	F	positive	22.79	positive	(++)	passed	nasopharyngeal swab

25	66	F	positive	14.72	positive	(+++)	passed	nasopharyngeal swab
26	48	F	positive	15.57	positive	(++)	passed	nasopharyngeal swab
27	61	F	positive	14.89	positive	(+++)	passed	nasopharyngeal swab
28	70	M	positive	24.67	positive	(+)	passed	nasopharyngeal swab
29	50	M	positive	16.98	positive	(++)	passed	nasopharyngeal swab
30	57	F	positive	28.48	negative	(-)	fail	anterior nasal swab
31	14	M	positive	25.94	positive	(+)	passed	anterior nasal swab
32	34	F	positive	18.36	positive	(+++)	passed	anterior nasal swab
33	55	M	positive	30.12	positive	(++)	passed	anterior nasal swab
34	63	M	positive	27.11	positive	(++)	passed	anterior nasal swab
35	37	M	positive	25.49	positive	(+++)	passed	anterior nasal swab
36	38	M	positive	21.32	positive	(+++)	passed	anterior nasal swab
37	33	F	positive	22.29	positive	(+++)	passed	anterior nasal swab
38	18	M	positive	14.72	positive	(+++)	passed	anterior nasal swab
39	9	F	positive	14.57	positive	(+++)	passed	anterior nasal swab
40	42	F	positive	19.88	positive	(+)	passed	anterior nasal swab

Table 7. Positive patients 292 cases.

No.	Age	Gender	PCR Results	Ct ORF1ab gene	Ag Result	Line intensity	Comment	Sample Type
1	49	M	positive	21.15	positive	(+++)	passed	throat swab
2	52	M	positive	25.43	positive	(+++)	passed	throat swab
3	56	M	positive	15.28	positive	(+++)	passed	throat swab
4	67	M	positive	21.1	positive	(+)	passed	throat swab
5	68	M	positive	17.68	positive	(++)	passed	throat swab
6	54	F	positive	21.9	positive	(+++)	passed	throat swab
7	24	M	positive	33.16	negative	(-)	fail	throat swab
8	21	F	positive	26.67	positive	(+)	passed	throat swab
9	34	F	positive	27.35	positive	(+)	passed	throat swab
10	43	M	positive	18.97	positive	(+++)	passed	throat swab
11	48	M	positive	21.01	positive	(+)	passed	throat swab
12	33	M	positive	19.43	positive	(++)	passed	throat swab
13	67	M	positive	26.98	positive	(+)	passed	throat swab
14	72	M	positive	21.53	positive	(+++)	passed	throat swab

15	62	F	positive	24.97	positive	(+++)	passed	throat swab
16	32	F	positive	15.59	positive	(+++)	passed	throat swab
17	40	M	positive	20.06	positive	(++)	passed	throat swab
18	50	M	positive	21.56	positive	(+)	passed	throat swab
19	53	M	positive	22.54	positive	(+)	passed	throat swab
20	45	F	positive	20.55	positive	(+)	passed	throat swab
21	71	F	positive	24.39	positive	(+++)	passed	throat swab
22	34	F	positive	24.54	positive	(+)	passed	throat swab
23	69	F	positive	22.57	positive	(++)	passed	throat swab
24	72	F	positive	26.18	positive	(+)	passed	throat swab
25	22	F	positive	15.07	positive	(++)	passed	throat swab
26	29	M	positive	16.59	positive	(+++)	passed	throat swab
27	64	F	positive	20.98	positive	(+)	passed	throat swab
28	30	M	positive	13.86	positive	(++)	passed	throat swab
29	48	M	positive	19.12	positive	(++)	passed	throat swab
30	61	F	positive	16.67	positive	(++)	passed	throat swab
31	16	M	positive	19.46	positive	(+)	passed	throat swab
32	15	M	positive	23.65	positive	(+++)	passed	throat swab
33	61	F	positive	23.71	positive	(+)	passed	throat swab
34	26	F	positive	21.28	positive	(+)	passed	throat swab
35	65	F	positive	18.01	positive	(++)	passed	throat swab
36	25	F	positive	20.97	positive	(+)	passed	throat swab
37	46	M	positive	21.93	positive	(+++)	passed	throat swab
38	62	M	positive	13.75	positive	(+)	passed	throat swab
39	19	M	positive	23.61	positive	(++)	passed	throat swab
40	33	M	positive	19.06	positive	(+++)	passed	throat swab
41	52	M	positive	15.53	positive	(+++)	passed	throat swab
42	35	M	positive	22.59	positive	(+)	passed	throat swab
43	20	F	positive	18.23	positive	(+)	passed	throat swab
44	36	F	positive	25.42	positive	(++)	passed	throat swab
45	56	M	positive	23.01	positive	(+)	passed	throat swab
46	47	M	positive	15.67	positive	(+++)	passed	throat swab
47	42	M	positive	18.12	positive	(+++)	passed	throat swab
48	28	M	positive	15.65	positive	(+)	passed	throat swab
49	46	M	positive	18.39	positive	(+)	passed	throat swab
50	35	M	positive	21.73	positive	(+++)	passed	throat swab
51	44	F	positive	19.3	positive	(++)	passed	throat swab
52	27	M	positive	18.93	positive	(+++)	passed	throat swab
53	22	F	positive	25.31	positive	(++)	passed	throat swab
54	52	M	positive	22.96	positive	(++)	passed	throat swab
55	38	F	positive	16.95	positive	(+)	passed	throat swab

56	17	M	positive	24.88	positive	(++)	passed	throat swab
57	41	F	positive	18.52	positive	(+)	passed	throat swab
58	35	M	positive	23.09	positive	(+)	passed	throat swab
59	62	F	positive	25.98	positive	(+)	passed	throat swab
60	26	M	positive	21.21	positive	(++)	passed	throat swab
61	27	M	positive	24.45	positive	(++)	passed	throat swab
62	31	F	positive	20.56	positive	(+)	passed	throat swab
63	57	M	positive	21.75	positive	(+)	passed	throat swab
64	32	M	positive	18.5	positive	(++)	passed	throat swab
65	48	F	positive	32.16	negative	(-)	fail	throat swab
66	32	F	positive	21.62	positive	(+++)	passed	throat swab
67	28	M	positive	21.59	positive	(+++)	passed	throat swab
68	36	M	positive	25.07	positive	(++)	passed	throat swab
69	46	M	positive	22.54	positive	(++)	passed	nasopharyngeal swab
70	41	M	positive	14.2	positive	(++)	passed	nasopharyngeal swab
71	36	M	positive	18.28	positive	(+++)	passed	nasopharyngeal swab
72	27	M	positive	30.64	positive	(+)	passed	nasopharyngeal swab
73	36	F	positive	19.62	positive	(+++)	passed	nasopharyngeal swab
74	41	F	positive	21.92	positive	(+)	passed	nasopharyngeal swab
75	41	M	positive	24.78	positive	(+)	passed	nasopharyngeal swab
76	22	M	positive	14.55	positive	(+++)	passed	nasopharyngeal swab
77	48	F	positive	18.48	positive	(+)	passed	nasopharyngeal swab
78	19	M	positive	23.64	positive	(++)	passed	nasopharyngeal swab
79	22	M	positive	15.31	positive	(+++)	passed	nasopharyngeal swab
80	61	F	positive	28.28	positive	(+)	passed	nasopharyngeal swab
81	57	F	positive	20.37	positive	(+++)	passed	nasopharyngeal swab
82	29	M	positive	27.68	positive	(+)	passed	nasopharyngeal swab
83	45	M	positive	19.59	positive	(+)	passed	nasopharyngeal swab
84	41	M	positive	24.86	positive	(+)	passed	nasopharyngeal swab

85	43	F	positive	14.63	positive	(+)	passed	nasopharyngeal swab
86	69	M	positive	24.77	positive	(+++)	passed	nasopharyngeal swab
87	26	F	positive	16.06	positive	(+++)	passed	nasopharyngeal swab
88	24	M	positive	13.41	positive	(++)	passed	nasopharyngeal swab
89	16	F	positive	19.29	positive	(+++)	passed	nasopharyngeal swab
90	32	F	positive	23.76	positive	(+)	passed	nasopharyngeal swab
91	35	M	positive	19.06	positive	(+++)	passed	nasopharyngeal swab
92	67	F	positive	24.97	positive	(++)	passed	nasopharyngeal swab
93	42	F	positive	19.46	positive	(++)	passed	nasopharyngeal swab
94	44	F	positive	14.37	positive	(+++)	passed	nasopharyngeal swab
95	18	M	positive	23.69	positive	(+++)	passed	nasopharyngeal swab
96	57	M	positive	15.63	positive	(++)	passed	nasopharyngeal swab
97	68	M	positive	13.2	positive	(+)	passed	nasopharyngeal swab
98	31	F	positive	14.59	positive	(++)	passed	nasopharyngeal swab
99	25	M	positive	23.93	positive	(+)	passed	nasopharyngeal swab
100	49	F	positive	17.91	positive	(++)	passed	nasopharyngeal swab
101	51	F	positive	20.36	positive	(+)	passed	nasopharyngeal swab
102	67	M	positive	16.21	positive	(+++)	passed	nasopharyngeal swab
103	18	F	positive	21.47	positive	(+++)	passed	nasopharyngeal swab
104	33	F	positive	26.91	positive	(++)	passed	nasopharyngeal swab
105	52	F	positive	24	positive	(+++)	passed	nasopharyngeal swab
106	39	M	positive	16.2	positive	(+++)	passed	nasopharyngeal swab
107	44	F	positive	13.2	positive	(++)	passed	nasopharyngeal swab
108	23	M	positive	20.28	positive	(+++)	passed	nasopharyngeal swab

109	70	F	positive	20.93	positive	(+)	passed	nasopharyngeal swab
110	34	M	positive	22.95	positive	(+++)	passed	nasopharyngeal swab
111	39	M	positive	18.1	positive	(+)	passed	nasopharyngeal swab
112	52	F	positive	17.5	positive	(++)	passed	nasopharyngeal swab
113	27	M	positive	19.98	positive	(+++)	passed	nasopharyngeal swab
114	54	M	positive	24.5	positive	(+)	passed	nasopharyngeal swab
115	40	F	positive	21.68	positive	(+++)	passed	nasopharyngeal swab
116	38	M	positive	24.51	positive	(++)	passed	nasopharyngeal swab
117	72	F	positive	17.31	positive	(++)	passed	nasopharyngeal swab
118	34	M	positive	16.91	positive	(++)	passed	nasopharyngeal swab
119	33	M	positive	17.73	positive	(++)	passed	nasopharyngeal swab
120	43	F	positive	25.03	positive	(++)	passed	nasopharyngeal swab
121	29	F	positive	20.61	positive	(+)	passed	nasopharyngeal swab
122	34	F	positive	19.48	positive	(+)	passed	nasopharyngeal swab
123	61	F	positive	26.34	positive	(+++)	passed	nasopharyngeal swab
124	61	M	positive	24.07	positive	(++)	passed	nasopharyngeal swab
125	47	F	positive	15.49	positive	(+++)	passed	nasopharyngeal swab
126	69	F	positive	18.99	positive	(++)	passed	nasopharyngeal swab
127	29	F	positive	24.04	positive	(+)	passed	nasopharyngeal swab
128	27	M	positive	25.2	positive	(+)	passed	nasopharyngeal swab
129	60	M	positive	15.95	positive	(+++)	passed	nasopharyngeal swab
130	15	F	positive	17.41	positive	(+)	passed	nasopharyngeal swab
131	50	F	positive	18.78	positive	(++)	passed	nasopharyngeal swab
132	65	M	positive	19.98	positive	(+++)	passed	nasopharyngeal swab

133	72	M	positive	24.54	positive	(+++)	passed	nasopharyngeal swab
134	22	M	positive	24.78	positive	(+++)	passed	nasopharyngeal swab
135	19	F	positive	20.73	positive	(+++)	passed	nasopharyngeal swab
136	37	M	positive	18.71	positive	(++)	passed	nasopharyngeal swab
137	63	F	positive	14.53	positive	(+)	passed	nasopharyngeal swab
138	64	F	positive	13.55	positive	(++)	passed	nasopharyngeal swab
139	55	F	positive	23.89	positive	(+++)	passed	nasopharyngeal swab
140	17	M	positive	19.45	positive	(+++)	passed	nasopharyngeal swab
141	46	M	positive	26.29	positive	(++)	passed	nasopharyngeal swab
142	25	F	positive	25.43	positive	(+)	passed	nasopharyngeal swab
143	26	F	positive	14.35	positive	(++)	passed	nasopharyngeal swab
144	73	M	positive	23.21	positive	(++)	passed	nasopharyngeal swab
145	65	F	positive	23.2	positive	(+)	passed	nasopharyngeal swab
146	51	M	positive	23.35	positive	(++)	passed	nasopharyngeal swab
147	53	F	positive	19.81	positive	(++)	passed	nasopharyngeal swab
148	60	F	positive	27.29	positive	(+)	passed	nasopharyngeal swab
149	24	F	positive	20.15	positive	(+)	passed	nasopharyngeal swab
150	36	F	positive	24.88	positive	(+)	passed	nasopharyngeal swab
151	21	F	positive	15.62	positive	(+)	passed	nasopharyngeal swab
152	61	M	positive	24.53	positive	(++)	passed	nasopharyngeal swab
153	56	F	positive	20.41	positive	(+++)	passed	nasopharyngeal swab
154	66	F	positive	14.91	positive	(++)	passed	nasopharyngeal swab
155	56	M	positive	21.69	positive	(++)	passed	nasopharyngeal swab
156	41	F	positive	21.93	positive	(++)	passed	nasopharyngeal swab

157	69	M	positive	18.13	positive	(+++)	passed	nasopharyngeal swab
158	63	F	positive	13.42	positive	(++)	passed	nasopharyngeal swab
159	53	M	positive	23.27	positive	(++)	passed	nasopharyngeal swab
160	46	M	positive	21.67	positive	(+)	passed	nasopharyngeal swab
161	64	F	positive	24.58	positive	(++)	passed	nasopharyngeal swab
162	21	F	positive	19.13	positive	(++)	passed	nasopharyngeal swab
163	56	F	positive	16.21	positive	(+)	passed	nasopharyngeal swab
164	63	F	positive	17.43	positive	(++)	passed	nasopharyngeal swab
165	28	F	positive	23.05	positive	(+++)	passed	nasopharyngeal swab
166	36	M	positive	23.28	positive	(+)	passed	nasopharyngeal swab
167	46	M	positive	14.8	positive	(+++)	passed	nasopharyngeal swab
168	54	F	positive	22.61	positive	(++)	passed	nasopharyngeal swab
169	59	F	positive	21.36	positive	(+)	passed	nasopharyngeal swab
170	43	M	positive	20.13	positive	(+++)	passed	nasopharyngeal swab
171	48	M	positive	18.9	positive	(++)	passed	nasopharyngeal swab
172	64	M	positive	18.83	positive	(+)	passed	nasopharyngeal swab
173	18	M	positive	23.92	positive	(++)	passed	nasopharyngeal swab
174	16	M	positive	13.09	positive	(++)	passed	nasopharyngeal swab
175	59	F	positive	13.53	positive	(+++)	passed	nasopharyngeal swab
176	25	M	positive	21.95	positive	(+)	passed	nasopharyngeal swab
177	60	F	positive	14.43	positive	(+)	passed	nasopharyngeal swab
178	66	M	positive	24.24	positive	(+)	passed	nasopharyngeal swab
179	17	F	positive	16.36	positive	(+)	passed	nasopharyngeal swab
180	71	M	positive	14.3	positive	(+++)	passed	nasopharyngeal swab

181	25	F	positive	24.09	positive	(+)	passed	nasopharyngeal swab
182	35	M	positive	17.65	positive	(++)	passed	nasopharyngeal swab
183	18	F	positive	17.37	positive	(+++)	passed	nasopharyngeal swab
184	55	M	positive	18.95	positive	(+)	passed	nasopharyngeal swab
185	43	F	positive	18.24	positive	(++)	passed	nasopharyngeal swab
186	50	F	positive	23.22	positive	(+)	passed	nasopharyngeal swab
187	24	M	positive	16.98	positive	(+++)	passed	nasopharyngeal swab
188	56	M	positive	25.42	positive	(+)	passed	nasopharyngeal swab
189	58	F	positive	16.53	positive	(++)	passed	nasopharyngeal swab
190	71	M	positive	26.18	positive	(+)	passed	nasopharyngeal swab
191	23	F	positive	16.39	positive	(++)	passed	nasopharyngeal swab
192	49	M	positive	20.87	positive	(++)	passed	nasopharyngeal swab
193	25	M	positive	21.6	positive	(++)	passed	nasopharyngeal swab
194	25	F	positive	17.36	positive	(+)	passed	nasopharyngeal swab
195	47	M	positive	22.98	positive	(++)	passed	nasopharyngeal swab
196	45	F	positive	26.56	positive	(++)	passed	anterior nasal swab
197	31	M	positive	33.95	negative	(-)	fail	anterior nasal swab
198	43	M	positive	26.98	positive	(+)	passed	anterior nasal swab
199	16	M	positive	24.14	positive	(++)	passed	anterior nasal swab
200	25	F	positive	23.65	positive	(++)	passed	anterior nasal swab
201	27	M	positive	22.13	positive	(+)	passed	anterior nasal swab
202	34	M	positive	26.48	positive	(++)	passed	anterior nasal swab
203	53	F	positive	26.98	positive	(+++)	passed	anterior nasal swab
204	31	M	positive	22.01	positive	(+++)	passed	anterior nasal swab

205	26	F	positive	13.82	positive	(+++)	passed	anterior nasal swab
206	23	M	positive	20.57	positive	(+++)	passed	anterior nasal swab
207	33	F	positive	16.55	positive	(+++)	passed	anterior nasal swab
208	60	M	positive	15.65	positive	(+)	passed	anterior nasal swab
209	58	F	positive	23.18	positive	(++)	passed	anterior nasal swab
210	70	F	positive	21.97	positive	(++)	passed	anterior nasal swab
211	56	F	positive	21.56	positive	(+)	passed	anterior nasal swab
212	61	F	positive	23.03	positive	(++)	passed	anterior nasal swab
213	26	M	positive	24.71	positive	(++)	passed	anterior nasal swab
214	40	M	positive	21.07	positive	(++)	passed	anterior nasal swab
215	30	M	positive	19.27	positive	(+++)	passed	anterior nasal swab
216	21	F	positive	21.91	positive	(++)	passed	anterior nasal swab
217	60	M	positive	23.06	positive	(+++)	passed	anterior nasal swab
218	28	F	positive	16.17	positive	(+++)	passed	anterior nasal swab
219	49	M	positive	20.83	positive	(+)	passed	anterior nasal swab
220	51	M	positive	26.65	positive	(+)	passed	anterior nasal swab
221	47	F	positive	24.63	positive	(++)	passed	anterior nasal swab
222	28	F	positive	17.36	positive	(++)	passed	anterior nasal swab
223	27	M	positive	27.53	positive	(+)	passed	anterior nasal swab
224	68	M	positive	16.32	positive	(+)	passed	anterior nasal swab
225	20	F	positive	25.3	positive	(+++)	passed	anterior nasal swab
226	59	F	positive	19.57	positive	(+)	passed	anterior nasal swab
227	73	M	positive	26.34	positive	(+)	passed	anterior nasal swab
228	25	M	positive	22.14	positive	(+)	passed	anterior nasal swab

229	37	M	positive	17.68	positive	(+++)	passed	anterior nasal swab
230	37	M	positive	13.91	positive	(++)	passed	anterior nasal swab
231	69	F	positive	14.68	positive	(+++)	passed	anterior nasal swab
232	60	F	positive	26.37	positive	(+)	passed	anterior nasal swab
233	24	F	positive	24.21	positive	(++)	passed	anterior nasal swab
234	31	F	positive	17.55	positive	(+++)	passed	anterior nasal swab
235	28	F	positive	21.34	positive	(+++)	passed	anterior nasal swab
236	53	M	positive	26.78	positive	(++)	passed	anterior nasal swab
237	22	M	positive	17.11	positive	(+)	passed	anterior nasal swab
238	38	M	positive	20.06	positive	(++)	passed	anterior nasal swab
239	44	M	positive	21.04	positive	(+)	passed	anterior nasal swab
240	29	M	positive	20.23	positive	(+)	passed	anterior nasal swab
241	55	M	positive	27.55	positive	(+)	passed	anterior nasal swab
242	49	M	positive	23.39	positive	(+)	passed	anterior nasal swab
243	62	F	positive	22.13	positive	(++)	passed	anterior nasal swab
244	19	M	positive	17.8	positive	(++)	passed	anterior nasal swab
245	29	F	positive	22.14	positive	(++)	passed	anterior nasal swab
246	27	F	positive	17.17	positive	(+++)	passed	anterior nasal swab
247	28	M	positive	19.48	positive	(++)	passed	anterior nasal swab
248	70	F	positive	29.4	negative	(-)	fail	anterior nasal swab
249	35	M	positive	19.33	positive	(++)	passed	anterior nasal swab
250	67	F	positive	26.59	positive	(+)	passed	anterior nasal swab
251	64	F	positive	15.8	positive	(+)	passed	anterior nasal swab
252	21	F	positive	24.7	positive	(++)	passed	anterior nasal swab

253	35	F	positive	24.76	positive	(++)	passed	anterior nasal swab
254	16	M	positive	18.53	positive	(++)	passed	anterior nasal swab
255	46	M	positive	25.24	positive	(+)	passed	anterior nasal swab
256	40	M	positive	22.52	positive	(++)	passed	anterior nasal swab
257	43	M	positive	16.33	positive	(++)	passed	anterior nasal swab
258	56	M	positive	17.3	positive	(+++)	passed	anterior nasal swab
259	26	F	positive	22.63	positive	(+)	passed	anterior nasal swab
260	40	F	positive	25.63	positive	(+)	passed	anterior nasal swab
261	38	F	positive	25.23	positive	(+)	passed	anterior nasal swab
262	61	M	positive	25.15	positive	(++)	passed	anterior nasal swab
263	45	M	positive	19.38	positive	(++)	passed	anterior nasal swab
264	72	F	positive	23.91	positive	(+)	passed	anterior nasal swab
265	18	M	positive	21.45	positive	(++)	passed	anterior nasal swab
266	49	M	positive	21.07	positive	(+++)	passed	anterior nasal swab
267	51	F	positive	17.51	positive	(+)	passed	anterior nasal swab
268	34	M	positive	22.33	positive	(+)	passed	anterior nasal swab
269	43	M	positive	15.63	positive	(++)	passed	anterior nasal swab
270	20	F	positive	13.47	positive	(+)	passed	anterior nasal swab
271	30	F	positive	15.61	positive	(++)	passed	anterior nasal swab
272	66	M	positive	15.92	positive	(++)	passed	anterior nasal swab
273	48	M	positive	15.45	positive	(+)	passed	anterior nasal swab
274	53	M	positive	26.62	positive	(+++)	passed	anterior nasal swab
275	36	F	positive	22.78	positive	(++)	passed	anterior nasal swab
276	38	F	positive	16.53	positive	(+)	passed	anterior nasal swab

277	53	M	positive	24.18	positive	(+)	passed	anterior nasal swab
278	18	M	positive	14.67	positive	(++)	passed	anterior nasal swab
279	55	M	positive	19.51	positive	(+)	passed	anterior nasal swab
280	55	F	positive	25.41	positive	(+)	passed	anterior nasal swab
281	38	M	positive	14.3	positive	(++)	passed	anterior nasal swab
282	37	M	positive	33.63	negative	(-)	fail	anterior nasal swab
283	19	F	positive	21.67	positive	(++)	passed	anterior nasal swab
284	55	F	positive	16	positive	(++)	passed	anterior nasal swab
285	63	M	positive	16.35	positive	(++)	passed	anterior nasal swab
286	22	M	positive	13.89	positive	(+)	passed	anterior nasal swab
287	36	M	positive	24.92	positive	(+)	passed	anterior nasal swab
288	30	M	positive	23.04	positive	(+)	passed	anterior nasal swab
289	46	M	positive	22.21	positive	(++)	passed	anterior nasal swab
290	45	M	positive	26.1	positive	(+)	passed	anterior nasal swab
291	60	F	positive	21.53	positive	(++)	passed	anterior nasal swab
292	54	M	positive	13.55	positive	(+++)	passed	anterior nasal swab

Table 8. Negative from non-infected individuals, 305 cases

No	Age	Gender	PCR Results	Ct	Ag result	Line intensity	Comment	Sample Type
1	38	M	negative	ND	negative	(-)	passed	throat swab
2	71	M	negative	ND	negative	(-)	passed	throat swab
3	8	M	negative	ND	negative	(-)	passed	throat swab
4	60	M	negative	ND	negative	(-)	passed	throat swab
5	59	M	negative	ND	negative	(-)	passed	throat swab
6	9	M	negative	ND	negative	(-)	passed	throat swab
7	61	F	negative	ND	negative	(-)	passed	throat swab
8	73	M	negative	ND	negative	(-)	passed	throat swab
9	66	F	negative	ND	negative	(-)	passed	throat swab
10	50	M	negative	ND	negative	(-)	passed	throat swab

11	10	M	negative	ND	negative	(-)	passed	throat swab
12	65	M	negative	ND	negative	(-)	passed	throat swab
13	72	M	negative	ND	negative	(-)	passed	throat swab
14	9	F	negative	ND	negative	(-)	passed	throat swab
15	72	M	negative	ND	negative	(-)	passed	throat swab
16	14	F	negative	ND	negative	(-)	passed	throat swab
17	16	M	negative	ND	negative	(-)	passed	throat swab
18	54	M	negative	ND	negative	(-)	passed	throat swab
19	8	M	negative	ND	negative	(-)	passed	throat swab
20	40	F	negative	ND	negative	(-)	passed	throat swab
21	25	F	negative	ND	negative	(-)	passed	throat swab
22	26	M	negative	ND	negative	(-)	passed	throat swab
23	62	F	negative	ND	negative	(-)	passed	throat swab
24	69	F	negative	ND	negative	(-)	passed	throat swab
25	10	M	negative	ND	negative	(-)	passed	throat swab
26	40	M	negative	ND	negative	(-)	passed	throat swab
27	35	F	negative	ND	negative	(-)	passed	throat swab
28	68	M	negative	ND	negative	(-)	passed	throat swab
29	67	M	negative	ND	negative	(-)	passed	throat swab
30	11	M	negative	ND	negative	(-)	passed	throat swab
31	39	F	negative	ND	negative	(-)	passed	throat swab
32	6	M	negative	ND	negative	(-)	passed	throat swab
33	40	F	negative	ND	negative	(-)	passed	throat swab
34	28	F	negative	ND	negative	(-)	passed	throat swab
35	21	M	negative	ND	negative	(-)	passed	throat swab
36	18	F	negative	ND	negative	(-)	passed	throat swab
37	64	M	negative	ND	negative	(-)	passed	throat swab
38	44	M	negative	ND	negative	(-)	passed	throat swab
39	63	F	negative	ND	negative	(-)	passed	throat swab
40	10	M	negative	ND	negative	(-)	passed	throat swab
41	53	F	negative	ND	negative	(-)	passed	throat swab
42	49	F	negative	ND	negative	(-)	passed	throat swab
43	46	F	negative	ND	negative	(-)	passed	throat swab
44	37	M	negative	ND	negative	(-)	passed	throat swab
45	67	M	negative	ND	negative	(-)	passed	throat swab
46	28	M	negative	ND	negative	(-)	passed	throat swab
47	31	M	negative	ND	negative	(-)	passed	throat swab
48	7	M	negative	ND	negative	(-)	passed	throat swab
49	14	F	negative	ND	negative	(-)	passed	throat swab
50	56	M	negative	ND	negative	(-)	passed	throat swab
51	21	M	negative	ND	negative	(-)	passed	throat swab

52	22	M	negative	ND	negative	(-)	passed	throat swab
53	39	M	negative	ND	negative	(-)	passed	throat swab
54	72	M	negative	ND	negative	(-)	passed	throat swab
55	19	M	negative	ND	negative	(-)	passed	throat swab
56	53	M	negative	ND	negative	(-)	passed	throat swab
57	53	F	negative	ND	negative	(-)	passed	throat swab
58	72	F	negative	ND	negative	(-)	passed	throat swab
59	62	M	negative	ND	negative	(-)	passed	throat swab
60	10	M	negative	ND	negative	(-)	passed	throat swab
61	10	M	negative	ND	negative	(-)	passed	throat swab
62	67	M	negative	ND	negative	(-)	passed	throat swab
63	8	F	negative	ND	negative	(-)	passed	throat swab
64	50	M	negative	ND	negative	(-)	passed	throat swab
65	51	M	negative	ND	negative	(-)	passed	throat swab
66	54	M	negative	ND	negative	(-)	passed	throat swab
67	39	M	negative	ND	negative	(-)	passed	throat swab
68	72	M	negative	ND	negative	(-)	passed	throat swab
69	15	M	negative	ND	negative	(-)	passed	throat swab
70	9	F	negative	ND	negative	(-)	passed	throat swab
71	9	F	negative	ND	negative	(-)	passed	throat swab
72	72	M	negative	ND	negative	(-)	passed	throat swab
73	69	F	negative	ND	negative	(-)	passed	throat swab
74	13	M	negative	ND	negative	(-)	passed	throat swab
75	52	M	negative	ND	negative	(-)	passed	throat swab
76	10	M	negative	ND	negative	(-)	passed	throat swab
77	67	F	negative	ND	negative	(-)	passed	throat swab
78	52	M	negative	ND	negative	(-)	passed	throat swab
79	68	M	negative	ND	negative	(-)	passed	throat swab
80	18	M	negative	ND	negative	(-)	passed	throat swab
81	13	F	negative	ND	negative	(-)	passed	throat swab
82	40	M	negative	ND	negative	(-)	passed	throat swab
83	25	F	negative	ND	negative	(-)	passed	throat swab
84	41	F	negative	ND	negative	(-)	passed	throat swab
85	7	M	negative	ND	negative	(-)	passed	throat swab
86	45	F	negative	ND	negative	(-)	passed	throat swab
87	21	M	negative	ND	negative	(-)	passed	throat swab
88	15	F	negative	ND	negative	(-)	passed	throat swab
89	38	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
90	38	M	negative	ND	negative	(-)	passed	nasopharyngeal swab

91	14	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
92	43	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
93	11	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
94	13	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
95	21	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
96	10	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
97	12	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
98	7	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
99	23	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
100	36	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
101	31	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
102	18	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
103	31	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
104	37	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
105	71	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
106	57	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
107	43	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
108	8	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
109	37	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
110	62	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
111	52	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
112	38	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
113	68	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
114	15	F	negative	ND	negative	(-)	passed	nasopharyngeal swab

115	11	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
116	30	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
117	6	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
118	69	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
119	15	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
120	8	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
121	39	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
122	20	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
123	42	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
124	28	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
125	34	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
126	61	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
127	71	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
128	28	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
129	63	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
130	40	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
131	8	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
132	32	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
133	63	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
134	55	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
135	36	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
136	69	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
137	42	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
138	43	F	negative	ND	negative	(-)	passed	nasopharyngeal swab

139	8	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
140	10	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
141	23	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
142	7	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
143	31	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
144	15	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
145	11	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
146	35	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
147	21	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
148	58	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
149	58	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
150	61	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
151	21	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
152	31	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
153	61	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
154	12	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
155	26	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
156	32	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
157	48	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
158	24	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
159	38	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
160	35	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
161	72	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
162	65	F	negative	ND	negative	(-)	passed	nasopharyngeal swab

163	15	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
164	34	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
165	60	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
166	41	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
167	60	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
168	7	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
169	27	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
170	64	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
171	37	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
172	32	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
173	18	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
174	17	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
175	36	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
176	28	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
177	41	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
178	65	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
179	72	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
180	68	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
181	7	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
182	26	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
183	39	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
184	56	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
185	57	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
186	36	F	negative	ND	negative	(-)	passed	nasopharyngeal swab

187	53	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
188	8	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
189	8	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
190	9	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
191	58	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
192	43	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
193	36	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
194	8	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
195	29	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
196	56	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
197	67	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
198	58	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
199	13	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
200	8	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
201	31	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
202	25	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
203	11	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
204	19	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
205	8	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
206	43	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
207	33	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
208	39	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
209	46	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
210	29	M	negative	ND	negative	(-)	passed	nasopharyngeal swab

211	27	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
212	59	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
213	58	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
214	48	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
215	38	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
216	69	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
217	54	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
218	16	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
219	43	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
220	15	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
221	14	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
222	53	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
223	6	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
224	7	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
225	25	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
226	41	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
227	19	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
228	28	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
229	46	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
230	34	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
231	29	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
232	21	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
233	11	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
234	41	M	negative	ND	negative	(-)	passed	nasopharyngeal swab

235	69	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
236	57	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
237	34	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
238	61	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
239	14	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
240	67	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
241	6	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
242	46	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
243	70	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
244	40	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
245	47	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
246	35	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
247	7	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
248	72	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
249	70	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
250	58	M	negative	ND	negative	(-)	passed	nasopharyngeal swab
251	31	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
252	22	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
253	65	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
254	56	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
255	48	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
256	21	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
257	21	F	negative	ND	negative	(-)	passed	nasopharyngeal swab
258	58	M	negative	ND	negative	(-)	passed	nasopharyngeal swab

259	59	F	negative	ND	negative	(-)	passed	anterior nasal swab
260	26	M	negative	ND	negative	(-)	passed	anterior nasal swab
261	11	M	negative	ND	negative	(-)	passed	anterior nasal swab
262	65	F	negative	ND	negative	(-)	passed	anterior nasal swab
263	64	F	negative	ND	negative	(-)	passed	anterior nasal swab
264	73	M	negative	ND	negative	(-)	passed	anterior nasal swab
265	58	M	negative	ND	negative	(-)	passed	anterior nasal swab
266	52	F	negative	ND	negative	(-)	passed	anterior nasal swab
267	11	F	negative	ND	positive	(+)	fail	anterior nasal swab
268	15	M	negative	ND	negative	(-)	passed	anterior nasal swab
269	48	M	negative	ND	negative	(-)	passed	anterior nasal swab
270	66	F	negative	ND	negative	(-)	passed	anterior nasal swab
271	10	F	negative	ND	negative	(-)	passed	anterior nasal swab
272	50	M	negative	ND	negative	(-)	passed	anterior nasal swab
273	19	M	negative	ND	negative	(-)	passed	anterior nasal swab
274	11	F	negative	ND	negative	(-)	passed	anterior nasal swab
275	59	F	negative	ND	negative	(-)	passed	anterior nasal swab
276	67	M	negative	ND	negative	(-)	passed	anterior nasal swab
277	28	M	negative	ND	negative	(-)	passed	anterior nasal swab
278	11	M	negative	ND	negative	(-)	passed	anterior nasal swab
279	10	F	negative	ND	negative	(-)	passed	anterior nasal swab
280	25	F	negative	ND	negative	(-)	passed	anterior nasal swab
281	52	F	negative	ND	negative	(-)	passed	anterior nasal swab
282	41	M	negative	ND	negative	(-)	passed	anterior nasal swab

283	57	F	negative	ND	negative	(-)	passed	anterior nasal swab
284	15	F	negative	ND	negative	(-)	passed	anterior nasal swab
285	30	F	negative	ND	negative	(-)	passed	anterior nasal swab
286	40	M	negative	ND	negative	(-)	passed	anterior nasal swab
287	72	F	negative	ND	negative	(-)	passed	anterior nasal swab
288	67	F	negative	ND	negative	(-)	passed	anterior nasal swab
289	64	M	negative	ND	negative	(-)	passed	anterior nasal swab
290	65	M	negative	ND	negative	(-)	passed	anterior nasal swab
291	65	M	negative	ND	negative	(-)	passed	anterior nasal swab
292	32	F	negative	ND	negative	(-)	passed	anterior nasal swab
293	28	M	negative	ND	negative	(-)	passed	anterior nasal swab
294	17	F	negative	ND	negative	(-)	passed	anterior nasal swab
295	49	M	negative	ND	negative	(-)	passed	anterior nasal swab
296	9	F	negative	ND	negative	(-)	passed	anterior nasal swab
297	21	F	negative	ND	negative	(-)	passed	anterior nasal swab
298	9	F	negative	ND	negative	(-)	passed	anterior nasal swab
299	68	M	negative	ND	negative	(-)	passed	anterior nasal swab
300	35	M	negative	ND	negative	(-)	passed	anterior nasal swab
301	18	M	negative	ND	negative	(-)	passed	anterior nasal swab
302	41	M	negative	ND	negative	(-)	passed	anterior nasal swab
303	49	F	negative	ND	negative	(-)	passed	anterior nasal swab
304	62	M	negative	ND	negative	(-)	passed	anterior nasal swab
305	8	F	negative	ND	negative	(-)	passed	anterior nasal swab

Table 9. Test results on 61 samples containing other respiratory pathogens

No	Pathogen	Gender	Age	PCR result	Ct	Ag result	Line intensity	Comment	Sample Type
1	Parainfluenza 2	M	18	negative	ND	negative	(-)	passed	throat swab
2	influenza A H3	F	36	negative	ND	negative	(-)	passed	throat swab
3	Parainfluenza 4	F	21	negative	ND	negative	(-)	passed	throat swab
4	OC43, influenza A H3	F	57	negative	ND	negative	(-)	passed	throat swab
5	HKU1	F	18	negative	ND	negative	(-)	passed	throat swab
6	influenza A H3, adenovirus	F	47	negative	ND	negative	(-)	passed	throat swab
7	Rhinovirus/Enterovirus	M	29	negative	ND	negative	(-)	passed	throat swab
8	OC43	M	16	negative	ND	negative	(-)	passed	throat swab
9	OC43, adenovirus	M	73	negative	ND	negative	(-)	passed	throat swab
10	RSV, Rhinovirus/Enterovirus	F	16	negative	ND	negative	(-)	passed	throat swab
11	Parainfluenza 4	F	54	negative	ND	negative	(-)	passed	throat swab
12	Staphylococcus sp	F	12	negative	ND	negative	(-)	passed	throat swab
13	NL63	M	56	negative	ND	negative	(-)	passed	throat swab
14	RSV	F	34	negative	ND	negative	(-)	passed	throat swab
15	adenovirus 7	F	23	negative	ND	negative	(-)	passed	throat swab
16	NL63	M	19	negative	ND	negative	(-)	passed	throat swab
17	influenza A H3	M	14	negative	ND	negative	(-)	passed	throat swab
18	HKU1, adenovirus	F	5	negative	ND	negative	(-)	passed	throat swab
19	229E, influenza B	F	19	negative	ND	negative	(-)	passed	throat swab
20	influenza A, Rhinovirus/Enterovirus	M	65	negative	ND	negative	(-)	passed	throat swab
21	Rhinovirus/Enterovirus	M	12	negative	ND	negative	(-)	passed	throat swab
22	Streptococcus sp.	M	9	negative	ND	negative	(-)	passed	throat swab
23	influenza B	F	20	negative	ND	negative	(-)	passed	throat swab
24	Streptococcus sp.	F	4	negative	ND	negative	(-)	passed	nasopharyngeal swab
25	NL63 A H3 parainfluenza	F	23	negative	ND	negative	(-)	passed	nasopharyngeal swab
26	HKU1, influenza A H1	M	17	negative	ND	negative	(-)	passed	nasopharyngeal swab
27	OC43, influenza A H3	F	49	negative	ND	negative	(-)	passed	nasopharyngeal swab
28	Parainfluenza 3	F	66	negative	ND	negative	(-)	passed	nasopharyngeal swab

29	229E	M	6	negative	ND	negative	(-)	passed	nasopharyngeal swab
30	adenovirus, parainfluenza	M	71	negative	ND	negative	(-)	passed	nasopharyngeal swab
31	Influenza B	M	22	negative	ND	negative	(-)	passed	nasopharyngeal swab
32	NL63	F	19	negative	ND	negative	(-)	passed	nasopharyngeal swab
33	influenza B	M	33	negative	ND	negative	(-)	passed	nasopharyngeal swab
34	HKU1, influenza A H1	M	8	negative	ND	negative	(-)	passed	nasopharyngeal swab
35	HKU1	F	38	negative	ND	negative	(-)	passed	nasopharyngeal swab
36	Parainfluenza 3	M	18	negative	ND	negative	(-)	passed	nasopharyngeal swab
37	RSV	M	9	negative	ND	negative	(-)	passed	nasopharyngeal swab
38	NL63	M	46	negative	ND	negative	(-)	passed	nasopharyngeal swab
39	RSV	F	19	negative	ND	negative	(-)	passed	nasopharyngeal swab
40	Parainfluenza 2	F	52	negative	ND	negative	(-)	passed	nasopharyngeal swab
41	Parainfluenza 4	F	55	negative	ND	negative	(-)	passed	nasopharyngeal swab
42	Influenza A H1	F	69	negative	ND	negative	(-)	passed	nasopharyngeal swab
43	influenza A H3	F	47	negative	ND	negative	(-)	passed	nasopharyngeal swab
44	229E, influenza B	F	16	negative	ND	negative	(-)	passed	nasopharyngeal swab
45	OC43	M	12	negative	ND	negative	(-)	passed	nasopharyngeal swab
46	RSV	M	58	negative	ND	negative	(-)	passed	nasopharyngeal swab
47	influenza A H1	M	68	negative	ND	negative	(-)	passed	nasopharyngeal swab
48	influenza A H3	M	21	negative	ND	negative	(-)	passed	nasopharyngeal swab
49	RSV	F	60	negative	ND	negative	(-)	passed	nasopharyngeal swab
50	influenza A H3	F	2	negative	ND	negative	(-)	passed	nasopharyngeal swab
51	Staphylococcus sp	F	23	negative	ND	negative	(-)	passed	nasopharyngeal swab
52	RSV	M	7	negative	ND	negative	(-)	passed	nasopharyngeal swab

53	RSV	F	26	negative	ND	negative	(-)	passed	nasopharyngeal swab
54	NL63	F	11	negative	ND	negative	(-)	passed	anterior nasal swab
55	RSV	F	65	negative	ND	negative	(-)	passed	anterior nasal swab
56	Parainfluenza 2	M	64	negative	ND	negative	(-)	passed	anterior nasal swab
57	Parainfluenza 4	F	73	negative	ND	negative	(-)	passed	anterior nasal swab
58	Influenza A H1	F	58	negative	ND	negative	(-)	passed	anterior nasal swab
59	influenza A H3	M	52	negative	ND	negative	(-)	passed	anterior nasal swab
60	229E, influenza B	M	11	negative	ND	negative	(-)	passed	anterior nasal swab
61	Parainfluenza 3	M	15	negative	ND	negative	(-)	passed	anterior nasal swab

Table 10. Test Results on 109 Negative Samples from hospitalized cases

No.	Age	Gender	PCR result	Ct	Ag result	Line intensity	Comment	ICD 10	Sample Type
1	45	F	negative	ND	negative	(-)	passed	Z51.1	throat swab
2	21	M	negative	ND	negative	(-)	passed	T78.4	throat swab
3	53	F	negative	ND	negative	(-)	passed	N81.2	throat swab
4	77	F	negative	ND	negative	(-)	passed	T78.4	throat swab
5	2	F	negative	ND	negative	(-)	passed	G40.8	throat swab
6	71	F	negative	ND	negative	(-)	passed	(I25.0)	throat swab
7	30	M	negative	ND	negative	(-)	passed	D27	throat swab
8	65	M	negative	ND	negative	(-)	passed	C34.0	throat swab
9	31	F	negative	ND	negative	(-)	passed	Z03.9	throat swab
10	4	M	negative	ND	negative	(-)	passed	G98	throat swab
11	27	F	negative	ND	negative	(-)	passed	O41.0	throat swab
12	73	M	negative	ND	negative	(-)	passed	C19	throat swab
13	13	M	negative	ND	negative	(-)	passed	C91.0	throat swab
14	37	M	negative	ND	negative	(-)	passed	Z03.9	throat swab
15	55	M	negative	ND	negative	(-)	passed	C43.9	throat swab
16	22	F	negative	ND	negative	(-)	passed	J96.9	throat swab
17	46	M	negative	ND	negative	(-)	passed	I48	throat swab
18	7	F	negative	ND	negative	(-)	passed	BD	throat swab
19	15	F	negative	ND	negative	(-)	passed	C91.0	throat swab
20	12	M	negative	ND	negative	(-)	passed	C71.6	throat swab
21	6	F	negative	ND	negative	(-)	passed	C91.0	throat swab

22	56	M	negative	ND	negative	(-)	passed	BD	throat swab
23	73	M	negative	ND	negative	(-)	passed	C21.8	throat swab
24	65	M	negative	ND	negative	(-)	passed	C25.9	throat swab
25	11	F	negative	ND	negative	(-)	passed	BD	throat swab
26	30	M	negative	ND	negative	(-)	passed	BD	throat swab
27	21	F	negative	ND	negative	(-)	passed	O82.1	throat swab
28	3	M	negative	ND	negative	(-)	passed	C64	throat swab
29	17	F	negative	ND	negative	(-)	passed	L40.0	nasopharyngeal swab
30	27	M	negative	ND	negative	(-)	passed	D27	nasopharyngeal swab
31	63	M	negative	ND	negative	(-)	passed	C56	nasopharyngeal swab
32	28	M	negative	ND	negative	(-)	passed	Z03.9	nasopharyngeal swab
33	62	M	negative	ND	negative	(-)	passed	N18.0	nasopharyngeal swab
34	48	M	negative	ND	negative	(-)	passed	H33.0	nasopharyngeal swab
35	59	M	negative	ND	negative	(-)	passed	T78.4	nasopharyngeal swab
36	14	F	negative	ND	negative	(-)	passed	D48.7	nasopharyngeal swab
37	72	M	negative	ND	negative	(-)	passed	I46.9	nasopharyngeal swab
38	10	M	negative	ND	negative	(-)	passed	C49.8	nasopharyngeal swab
39	9	F	negative	ND	negative	(-)	passed	C92.0	nasopharyngeal swab
40	88	F	negative	ND	negative	(-)	passed	C92.0	nasopharyngeal swab
41	86	M	negative	ND	negative	(-)	passed	I50.9	nasopharyngeal swab
42	82	M	negative	ND	negative	(-)	passed	J15.8	nasopharyngeal swab
43	4	M	negative	ND	negative	(-)	passed	BD	nasopharyngeal swab
44	49	F	negative	ND	negative	(-)	passed	D22.5	nasopharyngeal swab
45	5	F	negative	ND	negative	(-)	passed	G71.0	nasopharyngeal swab
46	46	M	negative	ND	negative	(-)	passed	K76.9	nasopharyngeal swab
47	62	F	negative	ND	negative	(-)	passed	T78.4	nasopharyngeal swab
48	15	M	negative	ND	negative	(-)	passed	M34.9	nasopharyngeal swab

49	93	M	negative	ND	negative	(-)	passed	C16.0	nasopharyngeal swab
50	65	M	negative	ND	negative	(-)	passed	C84.4	nasopharyngeal swab
51	65	F	negative	ND	negative	(-)	passed	C25.9	nasopharyngeal swab
52	61	F	negative	ND	negative	(-)	passed	I70.2	nasopharyngeal swab
53	3	F	negative	ND	negative	(-)	passed	G40.3	nasopharyngeal swab
54	21	M	negative	ND	negative	(-)	passed	K51.9	nasopharyngeal swab
55	2	M	negative	ND	negative	(-)	passed	G40.2	nasopharyngeal swab
56	48	M	negative	ND	negative	(-)	passed	N13.3	nasopharyngeal swab
57	41	F	negative	ND	negative	(-)	passed	N20.0	nasopharyngeal swab
58	50	M	negative	ND	negative	(-)	passed	Z51.6	nasopharyngeal swab
59	33	F	negative	ND	negative	(-)	passed	D26.1	anterior nasal swab
60	12	F	negative	ND	negative	(-)	passed	E66.0	anterior nasal swab
61	40	M	negative	ND	negative	(-)	passed	BD	anterior nasal swab
62	43	F	negative	ND	negative	(-)	passed	T78.4	anterior nasal swab
63	64	M	negative	ND	negative	(-)	passed	D69.0	anterior nasal swab
64	69	F	negative	ND	negative	(-)	passed	(I25.0)	anterior nasal swab
65	13	F	negative	ND	negative	(-)	passed	C49.2	anterior nasal swab
66	7	F	negative	ND	negative	(-)	passed	G12.1	anterior nasal swab
67	8	F	negative	ND	negative	(-)	passed	E10.9	anterior nasal swab
68	46	F	negative	ND	negative	(-)	passed	T78.4	anterior nasal swab
69	59	F	negative	ND	negative	(-)	passed	T78.4	anterior nasal swab
70	53	M	negative	ND	negative	(-)	passed	S82.7	anterior nasal swab
71	86	M	negative	ND	negative	(-)	passed	N17.8	anterior nasal swab
72	1	M	negative	ND	negative	(-)	passed	D70	anterior nasal swab

73	11	F	negative	ND	negative	(-)	passed	J35.2	anterior nasal swab
74	4	F	negative	ND	negative	(-)	passed	Q21.1	anterior nasal swab
75	44	F	negative	ND	negative	(-)	passed	G43.0	anterior nasal swab
76	64	F	negative	ND	negative	(-)	passed	M84.1	anterior nasal swab
77	6	F	negative	ND	negative	(-)	passed	G40.0	anterior nasal swab
78	51	M	negative	ND	negative	(-)	passed	C92.0	anterior nasal swab
79	6	F	negative	ND	negative	(-)	passed	J35.3	anterior nasal swab
80	2	M	negative	ND	negative	(-)	passed	C47.9	anterior nasal swab
81	2	M	negative	ND	negative	(-)	passed	Q21.0	anterior nasal swab
82	60	M	negative	ND	negative	(-)	passed	T78.4	anterior nasal swab
83	48	F	negative	ND	negative	(-)	passed	H71	anterior nasal swab
84	26	M	negative	ND	negative	(-)	passed	S02.9	anterior nasal swab
85	27	F	negative	ND	negative	(-)	passed	O35.8	anterior nasal swab
86	4	M	negative	ND	negative	(-)	passed	G71.0	anterior nasal swab
87	82	M	negative	ND	negative	(-)	passed	J15.8	anterior nasal swab
88	41	M	negative	ND	negative	(-)	passed	T78.4	anterior nasal swab
89	34	F	negative	ND	negative	(-)	passed	O24.4	anterior nasal swab
90	67	M	negative	ND	negative	(-)	passed	I50.1	anterior nasal swab
91	6	M	negative	ND	negative	(-)	passed	Z38.0	anterior nasal swab
92	8	M	negative	ND	negative	(-)	passed	F98.0	anterior nasal swab
93	56	F	negative	ND	negative	(-)	passed	Z94.4	anterior nasal swab
94	48	M	negative	ND	negative	(-)	passed	N13.3	anterior nasal swab
95	57	F	negative	ND	negative	(-)	passed	T78.4	anterior nasal swab
96	6	F	negative	ND	negative	(-)	passed	E34.3	anterior nasal swab

97	6	M	negative	ND	negative	(-)	passed	E34.9	anterior nasal swab
98	53	M	negative	ND	negative	(-)	passed	T78.4	anterior nasal swab
99	51	M	negative	ND	negative	(-)	passed	M50.1	anterior nasal swab
100	66	M	negative	ND	negative	(-)	passed	Z51.1	anterior nasal swab
101	38	M	negative	ND	negative	(-)	passed	T78.4	anterior nasal swab
102	9	M	negative	ND	negative	(-)	passed	E10.9	anterior nasal swab
103	84	M	negative	ND	negative	(-)	passed	I35.1	anterior nasal swab
104	7	F	negative	ND	negative	(-)	passed	D72.8	anterior nasal swab
105	34	F	negative	ND	negative	(-)	passed	T84.6	anterior nasal swab
106	6	F	negative	ND	negative	(-)	passed	E34.3	anterior nasal swab
107	40	F	negative	ND	negative	(-)	passed	S02.9	anterior nasal swab
108	43	M	negative	ND	negative	(-)	passed	O35.8	anterior nasal swab
109	34	M	negative	ND	negative	(-)	passed	G71.0	anterior nasal swab