

DIAGNOSTIC SPECIFICITY	22.03.2021 GA CoV-2 Antigen Rapid
&	Nasal_DIAGNOSTIC SPECIFICITY &
DIAGNOSTIC SENSITIVITY	DIAGNOSTIC SENSITIVITY_V01
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#### 1. Diagnostic specificity and Diagnostic Sensitivity

#### 1.1 Summary:

The diagnostic specificity indicates the probability that the test gives a negative result in the absence of the target analyte. True negative indicates a specimen known to be negative for the target analyte and correctly classified by the test. False positive indicates a specimen known to be negative for the target analyte and misclassified by the test.

The diagnostic sensitivity indicates the probability that the test gives a positive result in the presence of the target analyte. True positive indicates a specimen known to be positive for the target marker and correctly classified by the test. False negative indicates a specimen known to be positive for the target marker and misclassified by the test.

102 COVID-19 positive specimens and 500 COVID-19 negative specimens confirmed by PCR and clinical Symptoms were used in clinical study. Commercial PCR served as the reference method for the GA CoV-2 Antigen Rapid Nasal . The result shows the GA CoV-2 Antigen Rapid Test has a high restive sensitivity and high relative specificity when tested with the 204 specimens.

#### 1.2 Background:

Coronaviruses are a large family of viruses which may cause illness in animals or humans. In humans, several coronaviruses are known to cause respiratory infections ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS). The most recently discovered coronavirus in 2019 causes coronavirus diseaseCOVID-19.[1] The new coronavirus is called 2019-nCoV or SARS-COV-2. Due to the rapid spread of SARS-CoV-2, COVID-19 is now a pandemic affecting many countries globally. As of May 24th, there were 5.2 million confirmed cases worldwide and 337 000 reported deaths [2]. The clinical presentation of infection include respiratory symptoms, fever, and cough, shortness of breath and breathing difficulties. In more severe cases, infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death.[3]

#### 1.3 Objective:

Do clinical studies of GA CoV-2 Antigen Rapid Nasal with the COVID-19 positive specimens and negative specimens which confirmed with PCR method.

#### 1.4 Operation Method:

#### Material:

GA CoV-2 Antigen Rapid Nasal

#### **Competitors:**

Novel Coronavirus (SARS-COV-2) Real Time Multiplex RT-PCR Kit produced by Shanghai ZJ Bio Tech Co., Ltd., a commercial SARS-COV-2 kit approved by CFDA, is used as the "gold standard" reagent.



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#### Methods:

102 samples of the novel coronavirus SARS-CoV-2 from medical institution and 500 samples of healthy people were included in the testing plan. A total of 602 samples were tested in the COVID-19 Antigen Rapid assay and the Novel Coronavirus (SARS-COV-2) real-time multiplex RT-PCR kit, and the clinical sensitivity, specificity and overall agreement between the 2 assays calculated.

#### 1.5 Statistical analysis Method of test result:

This test adopt statistical analysis on pair enumeration data, and will record analysis in the form of fourfold table, see below:

Table 1: fourford table for evaluting diagnostic test

		Compari		
		positive	negative	
Test	positive	а	b	Y1
	negative	С	d	Y2
To	tal	C1	C2	N

Positive conformity rate = 
$$\frac{a}{(a+c)} * 100\%$$

Negative conformity rate = 
$$\frac{d}{(b+d)} * 100\%$$

Total conformity rate = 
$$\frac{(a+d)}{(a+b+c+d)} * 100\%$$



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#### 1.6 The results:

#### Positive results:

NO.	days post symptom onset	RT-PCR		GA CoV-2 Antigen Rapid Nasal
110.	days post symptom onset	Ct	Result	(Anterior Nasal Swab Specimen)
Positive 1	10	35	+	+
Positive 2	2	23	+	+
Positive 3	7	33	+	+
Positive 4	9	28	+	+
Positive 5	11	37	+	+
Positive 6	14	36	+	+
Positive 7	15	35	+	+
Positive 8	16	36	+	+
Positive 9	15	39	+	+
Positive 10	16	37	+	-
Positive 11	13	37	+	+
Positive 12	15	35	+	+
Positive 13	16	36	+	+
Positive 14	9	38	+	+
Positive 15	7	31	+	+
Positive 16	8	28	+	+
Positive 17	14	39	+	+
Positive 17	15	38	+	+
Positive 19	17	35	+	+
Positive 19	16	39	+	+
Positive 21	10	36	+	+
Positive 22	13	34		
Positive 22	15	37	+	+
Positive 23	16	38		+
	9		+	+
Positive 25	14	28	+	+
Positive 26		35	+	+
Positive 27	17	39	+	+
Positive 28	15	36	+	+
Positive 29	11	33	+	+
Positive 30	8	35	+	+
Positive 31	2	24	+	+
Positive 32	3	24	+	+
Positive 33	11	30	+	+
Positive 34	5	39	+	-
Positive 35	4	23	+	+
Positive 36	6	25	+	+
Positive 37	13	36	+	+
Positive 38	7	24	+	+
Positive 39	9	39	+	-
Positive 40	4	27	+	+



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Positive 41	1	35	+	-
Positive 42	2	21	+	+
Positive 43	3	25	+	+
Positive 44	2	23	+	+
Positive 45	5	24	+	+
Positive 46	6	28	+	+
Positive 47	13	35	+	+
Positive 48	6	27	+	+
Positive 49	3	18	+	+
Positive 50	10	37	+	+
Positive 51	5	25	+	+
Positive 52	4	24	+	+
Positive 53	2	18	+	+
Positive 54	9	35	+	+
Positive 55	5	26	+	+
Positive 56	11	37	+	+
Positive 57	2	23	+	+
Positive 58	6	26	+	+
Positive 59	13	29	+	+
Positive 60	12	30	+	+
Positive 61	7	29	+	+
Positive 62	11	31	+	+
Positive 63	9	35	+	+
Positive 64	5	27	+	+
Positive 65	6	34	+	+
Positive 66	4	23	+	+
Positive 67	7	30	+	+
Positive 68	10	35	+	+
Positive 69	4	30	+	+
Positive 70	5	29	+	+
Positive 71	7	29	+	+
Positive 72	5	25	+	+
Positive 73	6	24	+	+
Positive 74	4	25	+	+
Positive 75	4	22	+	+
Positive 76	5	28	+	+
Positive 77	3	23	+	+
Positive 78	2	23	+	+
Positive 79	1	23	+	+
Positive 80	7	32	+	+
Positive 81	6	28	+	+
Positive 82	5	30	+	+
Positive 83	2	21	+	+
Positive 84	3	19	+	+
Positive 85	3	25	+	+



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Positive 86	5	22	+	+
Positive 87	6	28	+	+
Positive 88	4	25	+	+
Positive 89	7	31	+	+
Positive 90	6	23	+	+
Positive 91	1	25	+	+
Positive 92	5	28	+	+
Positive 93	3	24	+	+
Positive 94	2	25	+	+
Positive 95	5	32	+	+
Positive 96	6	27	+	+
Positive 97	7	29	+	+
Positive 98	5	24	+	+
Positive 99	4	27	+	+
Positive 100	7	26	+	+
Positive 101	6	25	+	+
Positive 102	3	21	+	+



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#### **Negative results:**

RT-PCR	GA CoV-2 Antigen Rapid Nasal
	(Anterior Nasal Swab Specimen)
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-	-
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Negative 43#	-	-
Negative 44#	-	-
Negative 45#	-	-
Negative 46#	-	-
Negative 47#	-	-
Negative 48#	-	-
Negative 49#	-	-
Negative 50#	-	-
Negative 51#	-	-
Negative 52#	-	-
Negative 53#	-	+
Negative 54#	-	-
Negative 55#	-	-
Negative 56#	-	-
Negative 57#	-	-
Negative 58#	-	-
Negative 59#	-	-
Negative 60#	-	-
Negative 61#	-	-
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Negative 71#	-	-
Negative 72#	-	-
Negative 73#	-	-
Negative 74#	-	-
Negative 75#	-	-
Negative 76#	-	-
Negative 77#	-	-
Negative 78#	-	-
Negative 79#	-	-
Negative 80#	-	-
Negative 81#	-	-
Negative 82#	-	-
Negative 83#	-	-
Negative 84#	-	-
Negative 85#	-	-
	i	
Negative 86# Negative 87#	-	-



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Negative 88#	-	-
Negative 89#	-	-
Negative 90#	-	-
Negative 91#	-	-
Negative 92#	-	-
Negative 93#	-	-
Negative 94#	-	-
Negative 95#	-	-
Negative 96#	-	-
Negative 97#	-	-
Negative 98#	-	-
Negative 99#	-	-
Negative 100#	-	-
Negative 101#	-	-
Negative 102#	-	-
Negative 103#	-	-
Negative 104#	-	-
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Negative 106#	-	-
Negative 107#	-	-
Negative 108#	-	-
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Negative 111#	-	-
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Negative 113#	-	-
Negative 114#	-	-
Negative 115#	-	-
Negative 116#	-	-
Negative 117#	-	-
Negative 118#	-	-
Negative 119#	-	-
Negative 120#	-	-
Negative 121#	-	-
Negative 122#	-	-
Negative 123#	-	-
Negative 124#	-	-
Negative 125#	-	-
Negative 126#	-	-
Negative 127#	-	-
Negative 128#	-	-
Negative 129#	-	-
Negative 130#	-	-
Negative 131# Negative 132#	-	-



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Negative 134# Negative 135# Negative 136# Negative 137# Negative 138# Negative 139# Negative 140# Negative 141# Negative 142# Negative 143# Negative 144# Negative 145# Negative 146# Negative 147#	- - - - - - - - - - - -	
Negative 135# Negative 136# Negative 137# Negative 138# Negative 139# Negative 140# Negative 141# Negative 142# Negative 143# Negative 144# Negative 145# Negative 146#	- - - - - - - -	- - - - - - - -
Negative 136# Negative 137# Negative 138# Negative 139# Negative 140# Negative 141# Negative 142# Negative 143# Negative 144# Negative 145# Negative 146#	- - - - - - - -	- - - - - - - -
Negative 137# Negative 138# Negative 139# Negative 140# Negative 141# Negative 142# Negative 143# Negative 144# Negative 145# Negative 146#	- - - - - - - -	- - - - - - - -
Negative 138# Negative 139# Negative 140# Negative 141# Negative 142# Negative 143# Negative 144# Negative 145# Negative 146#	- - - - - - -	- - - - - -
Negative 139# Negative 140# Negative 141# Negative 142# Negative 143# Negative 144# Negative 145# Negative 146#	- - - - - -	- - - - - -
Negative 140# Negative 141# Negative 142# Negative 143# Negative 144# Negative 145# Negative 146#	- - - - -	- - - - -
Negative 141# Negative 142# Negative 143# Negative 144# Negative 145# Negative 146#	- - - - -	- - - -
Negative 142# Negative 143# Negative 144# Negative 145# Negative 146#	- - - -	- - -
Negative 143# Negative 144# Negative 145# Negative 146#	- - -	- - -
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Negative 145# Negative 146#	-	-
Negative 146#	-	
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Negative 148#	-	-
Negative 149#	-	-
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Negative 151#	-	-
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Negative 155#	-	+
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Negative 163#	-	-
Negative 164#	-	-
Negative 165#	-	-
Negative 166#	-	-
Negative 167#	-	-
Negative 168#	-	-
Negative 169#	-	-
Negative 170#	-	-
Negative 171#	-	-
Negative 172#	-	-
Negative 173#	-	-
Negative 174#	-	-
Negative 175#	-	-
Negative 176#	-	-
Negative 177#	-	-



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Negative 178#	-	-
Negative 179#	-	-
Negative 180#	-	-
Negative 181#	-	-
Negative 182#	-	-
Negative 183#	-	-
Negative 184#	-	-
Negative 185#	-	-
Negative 186#	-	-
Negative 187#	-	-
Negative 188#	-	-
Negative 189#	-	-
Negative 190#	-	-
Negative 191#	-	-
Negative 192#	-	-
Negative 193#	-	-
Negative 194#	-	+
Negative 195#	-	-
Negative 196#	-	-
Negative 197#	-	-
Negative 198#	-	-
Negative 199#	-	1
Negative 200#	-	1
Negative 201#	-	ı
Negative 202#	-	1
Negative 203#	-	1
Negative 204#	-	-
Negative 205#	-	1
Negative 206#	-	1
Negative 207#	-	1
Negative 208#	-	-
Negative 209#	-	-
Negative 210#	-	1
Negative 211#	-	-
Negative 212#	-	-
Negative 213#	-	-
Negative 214#	-	-
Negative 215#	-	-
Negative 216#	-	-
Negative 217#	-	-
Negative 218#	-	-
Negative 219#	-	-
Negative 220#	-	-
Negative 221#	-	-
Negative 222#	-	-
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Negative 224#			
Negative 225#	Negative 223#	-	-
Negative 226#	-	-	-
Negative 227#		-	-
Negative 228#	Negative 226#	-	-
Negative 229#	Negative 227#	-	-
Negative 230#	Negative 228#	-	-
Negative 231#	Negative 229#	-	-
Negative 232#	Negative 230#	-	-
Negative 233#	Negative 231#	-	-
Negative 234#	Negative 232#	-	-
Negative 235#	Negative 233#	-	-
Negative 236#	Negative 234#	-	-
Negative 237#	Negative 235#	-	-
Negative 238#	Negative 236#	-	-
Negative 239#	Negative 237#	-	-
Negative 240#	Negative 238#	-	-
Negative 241#	Negative 239#	-	-
Negative 242#	Negative 240#	•	-
Negative 243#       -       -         Negative 244#       -       -         Negative 246#       -       -         Negative 247#       -       -         Negative 248#       -       -         Negative 249#       -       -         Negative 250#       -       -         Negative 251#       -       -         Negative 252#       -       -         Negative 253#       -       -         Negative 254#       -       -         Negative 256#       -       -         Negative 257#       -       -         Negative 259#       -       -         Negative 260#       -       -         Negative 261#       -       -         Negative 263#       -       -         Negative 263#       -       -	Negative 241#	•	-
Negative 244#       -       -         Negative 246#       -       -         Negative 247#       -       -         Negative 248#       -       -         Negative 249#       -       -         Negative 250#       -       -         Negative 251#       -       -         Negative 252#       -       -         Negative 253#       -       -         Negative 254#       -       -         Negative 256#       -       -         Negative 257#       -       -         Negative 259#       -       -         Negative 260#       -       -         Negative 261#       -       -         Negative 263#       -       -         Negative 263#       -       -	Negative 242#	1	-
Negative 245#       -       -         Negative 246#       -       -         Negative 247#       -       -         Negative 248#       -       -         Negative 249#       -       -         Negative 250#       -       -         Negative 251#       -       -         Negative 252#       -       -         Negative 253#       -       -         Negative 254#       -       -         Negative 256#       -       -         Negative 257#       -       -         Negative 258#       -       -         Negative 259#       -       -         Negative 260#       -       -         Negative 261#       -       -         Negative 263#       -       -	Negative 243#	1	-
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Negative 248#       -       -         Negative 250#       -       -         Negative 251#       -       -         Negative 252#       -       -         Negative 253#       -       -         Negative 254#       -       -         Negative 255#       -       -         Negative 256#       -       -         Negative 257#       -       -         Negative 258#       -       -         Negative 259#       -       -         Negative 260#       -       -         Negative 261#       -       -         Negative 262#       -       -         Negative 263#       -       -	Negative 246#	-	-
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Negative 264#		-	-
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Negative 267#	Negative 267#	-	-



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Negative 260#		
Negative 268#	-	-
Negative 269#	-	-
Negative 270#	-	-
Negative 271#	-	-
Negative 272#	-	-
Negative 273#	-	-
Negative 274#	-	-
Negative 275#	-	-
Negative 276#	-	-
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Negative 278#	-	-
Negative 279#	-	-
Negative 280#	-	-
Negative 281#	-	-
Negative 282#	-	-
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Negative 292#	-	-
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Negative 294#	-	-
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Negative 297#	-	-
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Negative 299#	-	-
Negative 300#	-	-
Negative 301#	-	-
Negative 302#	-	-
Negative 303#	-	-
Negative 304#	-	-
Negative 305#	-	-
Negative 306#	-	-
Negative 307#	-	-
Negative 308#	-	-
Negative 309#	-	-
Negative 310#	-	-
Negative 311#	-	-
Negative 312#	-	-
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Negative 2124		
Negative 313#	-	-
Negative 314#	-	-
Negative 315#	-	-
Negative 316#	-	-
Negative 317#	-	-
Negative 318#	-	-
Negative 319#	-	-
Negative 320#	-	-
Negative 321#	-	-
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Negative 325#	-	-
Negative 326#	-	-
Negative 327#	-	-
Negative 328#	-	-
Negative 329#	-	-
Negative 330#	-	-
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Negative 359#			
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Negative 448#	-	-
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Negative 493#	-	-
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Negative 500#	-	-

#### 1.7 The results:

GA CoV-2 Antigen Rapid Nasal		Comparison Test (RT-PCR)		Total
		positive	negative	
Covid-19	positive	98	4	102
Antigen	negative	4	496	500
To	tal	102	500	602
Relative Sensitivity		96.1% 95% CI:(90.26%~98.92%)		98.92%)
Relative S	Relative Specificity		99,2% 95%Cl : (97.96%-99.78%)	
Accı	Accuracy		98.7%; 95%Cl: (97.40%-99.42%)	



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### 1.8 GA CoV-2 Antigen Rapid Nasal Positive Results by time from symptom onset:

Days post symptom onset	Number of samples	PCR positive	
			GA CoV-2 Antigen Rapid Nasal
≤3	20	20	19/20=95.0%
4~7	43	43	42/43=97.7%
8~14	26	26	25/26=96.2%
>14	13	13	12/13=92.3%
			98/102=96.1%
Total	102	102	95% CI: (90.26%~98.92%)

The performance of GA CoV-2 Antigen Rapid Nasal with positive results stratified by the comparator method cycle threshold (Ct) counts were collected and assessed to better understand the correlation of assay performance to the cycle threshold, estimating the viral titer present in the clinical sample. As presented in the table below, the positive agreement of the GA CoV-2 Antigen Rapid Nasal is higher with samples of a Ct count <35. GA CoV-2 Antigen Rapid Nasal performance against the Comparator Method – by Cycle Threshold Counts.

GA CoV-2 Antigen	RT-PCR(Positive by Ct Category)	
Rapid Nasal	Positive(Ct < 35)	Positive(Ct≥35)
Positive	70	28
Negative	0	4
Total	70	32
Positive Agreement (95% CI)	100.0%(94.87% ~ 100.00%)	87.5%(71.01%~96.49%)



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#### 1.9 Conclusion:

The overall clinical performance of the GA CoV-2 Antigen Rapid Nasal was comparable with the data obtained in the Novel Coronavirus (SARS-COV-2) Real Time Multiplex RT-PCR assay and supports the use of the GA Generic Assays GmbH assay in the detection of SARS-CoV-2.