

# Clinical Study Report of 2019-nCoV IgG/IgM Rapid Test Cassette

Ref.: INCP-402B

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# 1. Purpose

Do clinical studies of 2019-nCoV IgG/IgM Rapid Test Cassette (Whole Blood/Serum/Plasma) with the 2019-nCoV positive specimen and negative specimen which confirmed with PCR method.

Lot: COV20020001-R

### 2. Materials

- 2019-nCoV IgG/IgM Rapid Test Cassette
- 20 2019-nCoV clinical positive specimen
- 50 2019-nCoV clinical negative specimen

# 3. Operation Method

- 3.1. Place the cassette on a clean and level surface. Hold the dropper vertically, transfer 10  $\mu$  L serum, plasma specimen or 20  $\mu$  L whole blood specimen to the sample well(S). Then add 2 drops of buffer (approximately 80 L) and start the timer.
- 3.2. Read the results at 10 minutes, do not interpret the results after 20 minutes.

### 4. Test Results

**Table-** Test Results of INCP-402B

	Age	Gender		Result		
No.			AllTest Kit		DCD D 1	
	Alternative Control of the Control o		IgG	IgM	PCR Results	
1	45	Female	+	+	+	
2	34	Female	+	+	+	
3	31	Male	+	+	+	
4	36	Male	+	+	+	
5	55	Female	+	+	+	
6	63	Female	+	+	+	
7	38	Female	+	+	+	
8	74	Male	+	+	+	
9	74	Male	+	-	+	
10	51	Male	+	+	+	
11	83	Male	+	-	+	
12	65	Female	+	+	+	
13	59	Female	+	+	+	
14	48	Female	+	+	+	
15	36	Male	+	+	+	
16	81	Female	+	-	+	
17	85	Male	+	+	+	
18	39	Male	+	+	+	
19	84	Female	+	+	+	
20	91	Male	+	+	+	
21	39	Male	-	-	-	



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22	80	Female	-	-	-
23	96	Female	-	-	-
24	85	Male	-	-	-
25	77	Female	-	-	-
26	71	Female	-	-	-
27	51	Male	-	-	-
28	73	Female	-	+	-
29	74	Male	-	-	-
30	26	Female	-	-	-
31	60	Female	-	-	-
32	67	Male	-	-	-
33	38	Male	-	-	-
34	82	Male	-	-	-
35	63	Female	-	-	-
36	90	Male	-	-	-
37	69	Female	-	-	-
38	56	Male	-	-	
39	68	Male	+	-	- I IVI
40	59	Male	-	-	-
41	66	Female	-	-	-
42	17	Female			-
43	85	Female	-	-	-
44	31	Male		7	_
45	68	Female		-	-
46	59	Male	_		-
47	71	Female	-	_	-
48	36	Male	-	-	-
49	39	Male	-	+	-
50	82	Male	-	-	-
51	49	Female	-	-	-
52	62	Male	-	-	-
53	71	Male	-	-	-
54	38	Female	-	-	-
55	82	Male	-	-	-
56	63	Female	-	-	-
57	74	Male	-	-	-
58	69	Male	-	-	-
59	56	Male	-	-	-
60	68	Female	-	-	-
61	59	Male	-	-	-
62	46	Female	-	-	-
63	17	Female	-	-	-



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64	85	Male	-	-	-
65	31	Female	-	-	-
66	68	Male	-	-	-
67	52	Male	-	-	-
68	81	Female	-	-	-
69	66	Male	-	-	-
70	27	Female	-	-	-

Note: "+" mean positive result, "-" mean negative result

# 5. Result Analysis

### Table: Clinical study result of INCP-402B

## IgG Result

Method		PCI	Total Results	
2019-nCoV IgG/IgM	Results	Positive	Negative	Total Results
Rapid Test Cassette	Positive	20	1	21
(WB/S/P)	Negative	0	49	49
Total Results		20	50	70

Relative Sensitivity: >99.9% (95%CI\*: 86%-100%) Relative Specificity: 98.0% (95%CI\*: 89.4%-99.9%)

Accu<mark>ra</mark>cy: 98.6<mark>% (</mark>95%CI\*: 92.3%-99.96%)

\*Confidence Intervals

# IgM Result

Method		PCR		Total Results
2019-nCo <mark>V I</mark> gG/IgM	Results	Positive	Negative	Total Results
Rapid Test Cassette	Positive	17	2	19
(WB/S/P)	<b>Negativ</b> e	3	48	51
Total Results		20	50	70

Relative Sensitivity: 85.0% (95%CI\*: 62.1%-96.8%) Relative Specificity: 96.0% (95%CI\*: 86.3%-99.5%)

Accuracy: 92.9% (95%CI\*: 84.1%-97.6%)

\*Confidence Intervals

### 6. Conclusion

The relative sensitivity of 2019-nCoV IgG/IgM Rapid Test Cassette (INCP-402B) was more than 99.9% for IgG and 85.0% for IgM, the relative specificity was 98.0% for IgG and 96.0% for IgM compare with PCR result.