

2019-nCoV

Neutralizing Antibody Test

Quantum Dot Immunofluorescence
Chromatography



2019-nCoV

Neutralizing Antibody Test

The kit is intended for quantitative detection of neutralizing antibody to the novel coronavirus (2019-nCoV) in human serum, plasma or whole blood (fingertip blood or venous whole blood) specimens.

Detection of neutralizing antibody can be used to assess the prognosis of viral infection and effect evaluation after vaccination.

Features



Convenient & Fast

Hand-held device;
Result available within 15 minutes;
Equipment automatically interpret result;



Quantitative testing

Quantitatively detecting neutralizing antibody with concentration as low as **40 IU/mL**



Universal sample types

Serum/Plasma/Whole blood

Result Interpretation

Displayed Result		Result Interpretation
Value	RS	
40 IU/mL < value < 100 IU/mL	Pos (+)	Positive: The specimen contains neutralizing antibodies for 2019-nCoV and its value is higher than 40 IU/mL.
100 IU/mL ≤ value < 300 IU/mL	Pos (++)	
300 IU/mL ≤ value < 800 IU/mL	Pos (+++)	
≥ 800 IU/mL	Pos (++++)	
< 40 IU/mL	Neg (-)	Negative: The specimen doesn't contain neutralizing antibodies for 2019-nCoV or its value is lower than 40 IU/mL.
NA	NA	Invalid: The specimen needs to be tested again. Incorrect operations are the most likely reasons for failure.



Test Procedures

Specimen Collection

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- 1 Disinfect with the alcohol pad
 - 2 Pierce the finger with the lancet to a depth of 2 to 3 mm.
 - 3 Collect fingertip blood with pipette to the mark line (20 µL)
 - 4 Apply the whole blood
 - 5 Add 2 drops of the specimen diluent
 - 6 Place it at room temperature (15 C-30 C) for 15mins

Specimen Handling

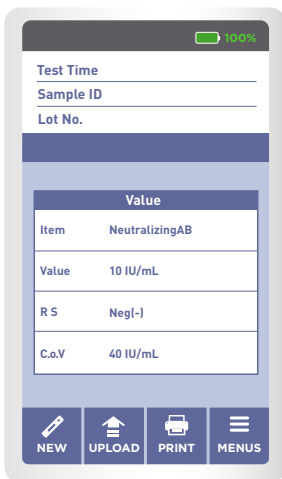
-
- 1 Insert the ID card
 - 2 Click the power button to turn on the instrument
 - 3 Insert the reagent card
 - 4 Click the power button or "Quick Test".
 - 5 Click the power button or "Quick Test" to start the test.
 - 6 After the test is completed, the instrument displays the "Test Result"
 - 7 After the test, hold the power button for 5 seconds to turn off the instrument.



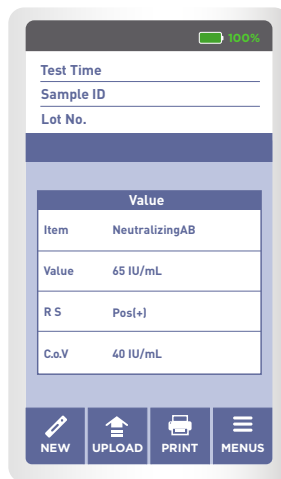
Test Procedures

Result Interpretation

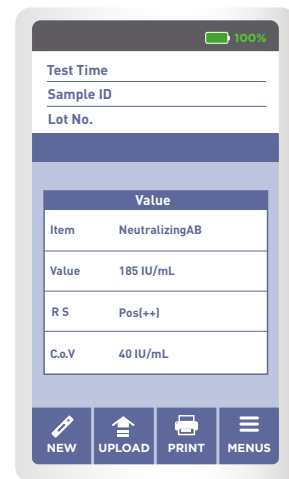
When test value < 40 IU/mL,
the result shows "Neg(-)"



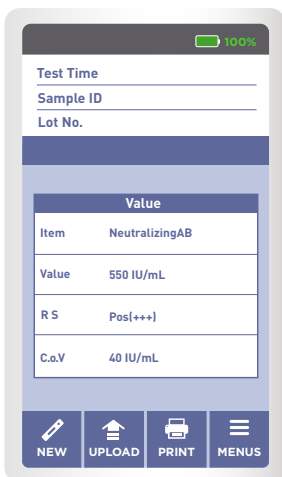
When $40 \leq$ test value < 100 IU/mL,
the result shows "Pos(+)"



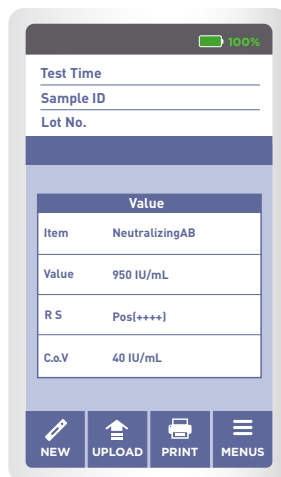
When $100 \leq$ test value < 300 IU/mL,
the result shows "Pos(++)"



When $300 \leq$ test value < 800 IU/mL,
the result shows "Pos(+++)"

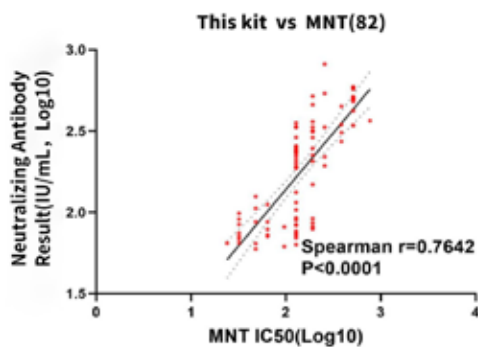


When test value ≥ 800 IU/mL,
the result shows "POS(++++)"

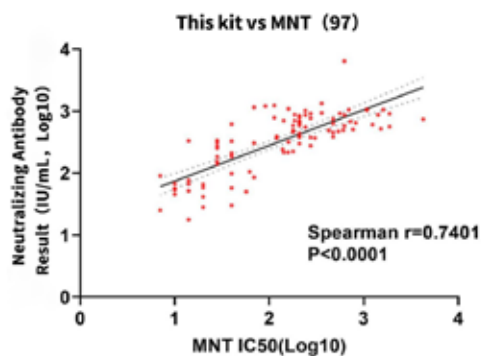


Kit Performance

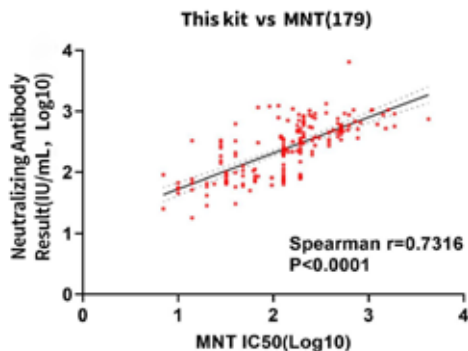
Correlation between the test value of the positive sample and the neutralization test



Correlation between concentration and neutralization titer of 82 post-vaccine samples



Correlation between concentration and neutralization titer of 97 patients with SS-COV-2 infection



Correlation between concentration and neutralization titer of 179 samples

The neutralization titers of patient samples and post-vaccine samples have a significant correlation with the detection concentration of this kit.

Kit Performance

Correlation between the test value of the positive sample and the neutralization test

		Micro-neutralization test (MNT)		Total
		+	-	
Quantum Dot Immunofluorescence	+	171	12	183
	-	8	287	295
Total		179	299	478

Specifications

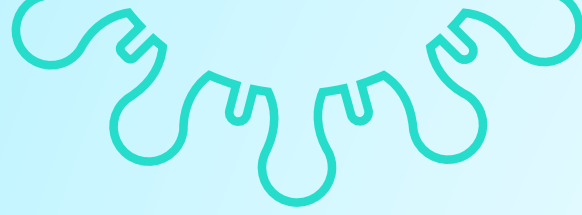
Packing Size: 20 tests/box

Storage: 4-30°C

Validity: 12 months

Specimens: Serum/Plasma/Whole blood





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INNOVITA is a leading manufacturer of diagnostic solutions for healthcare, striving for a more efficient healthcare system to enhance the health and well-being of people all over the world.

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