

smarter diagnostics

STANDARD F SARS-CoV-2 nAb FIA Test procedure

STANDARD F SD BIOSENSOR





SARS-COV-2 NAb FIA

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STANDARD F SARS-CoV-2 nAb

Test procedure

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SARS-CoV-2 Neutralizing Antibody test STANDARD F SARS-CoV-2 nAb FIA

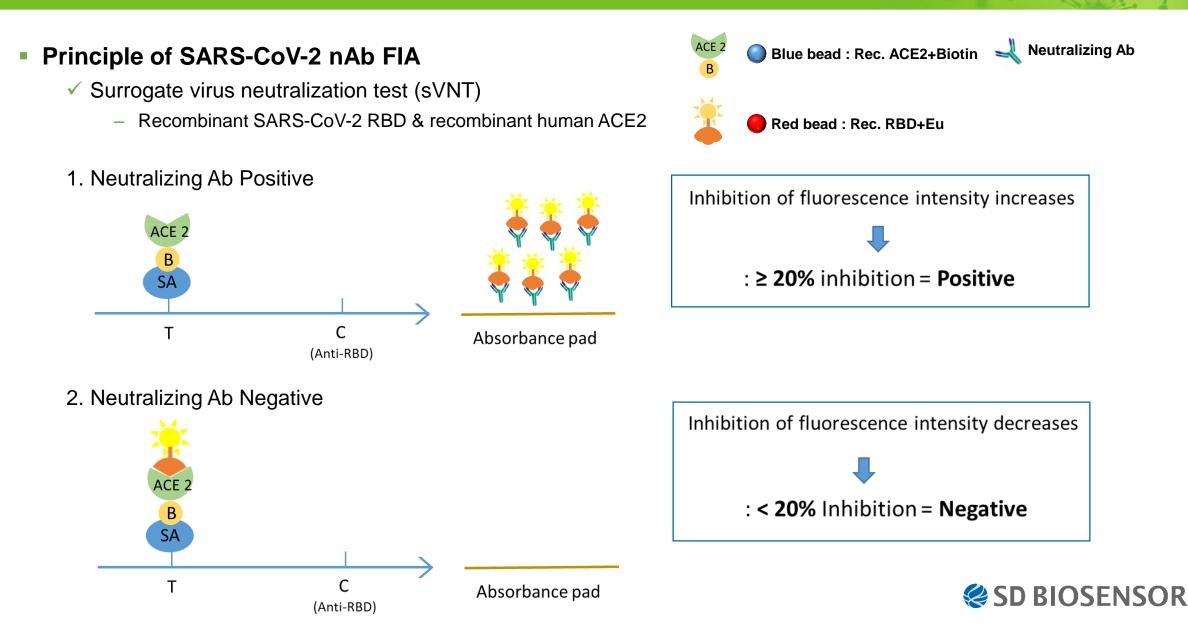
- Simple testing procedure
- High correlation with other VNT methods
- Available for detecting nAbs produced by different variants group. (Wuhan/U.K, South Africa/Brazil)



Specimen type	ype Serum, Plasma (EDTA)					
Cut-Off	PI 20% ★ Inhibition rate = $\left(1 - \frac{\text{T peak of Test Sample}}{\text{Designated T peak of Negative sample}}\right) \times 100$					
Sensitivity	100% (36/36)					
Specificity	• Serum : 99.0% (1,089/1,100) • Plasma : 98.8% (494/500)					
Specimen volume	100ul of each Variant Group test					
Testing time	35 mins (20 mins for incubation/ 15 mins for reading)					
Storage condition	Room temperature					
Sets/Kit	10 SETS/KIT					
Ordering information (CAT#)	10COV80B					



SARS-CoV-2 Neutralizing Antibody test Test principle



SARS-CoV-2 Neutralizing Antibody test STANDARD d-BLOCK Incubator

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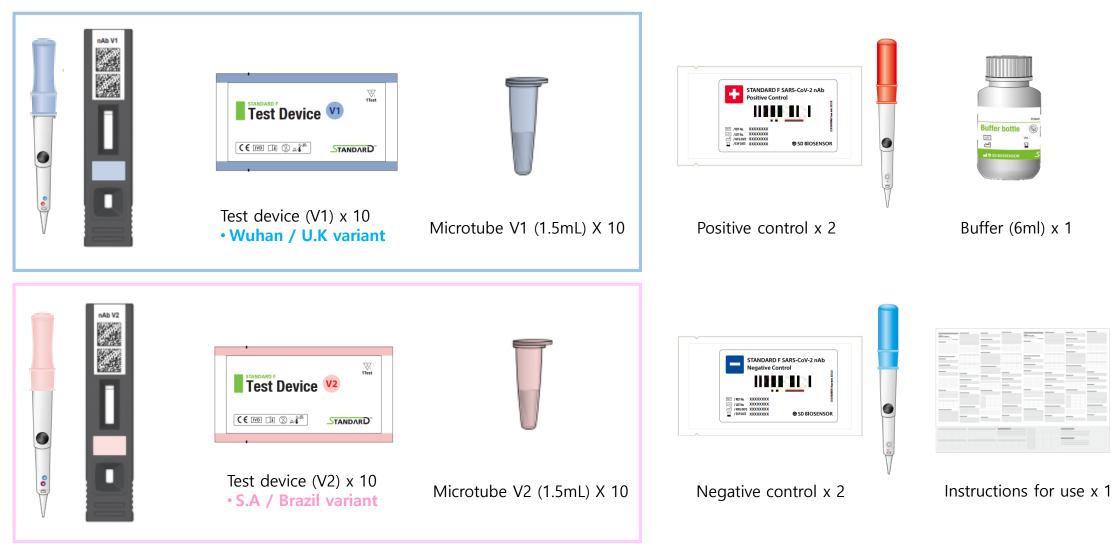
STANDARD d-Block Incubator

Dimension	220*184*73 mm
Initial time	15 minutes
Temperature range	35~40°C (95°F ~104°F)
Environment condition	10~30°C (50°F ~86°F)
Cat. No.	12INC10





SARS-CoV-2 Neutralizing Antibody test **Kit contents**



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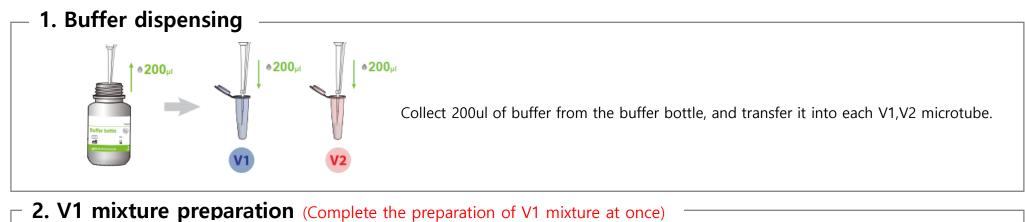
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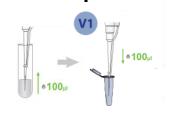
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SARS-CoV-2 Neutralizing Antibody test Sample preparation



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Add 100ul of specimen into microtube.



Dissolve two tablets in the V1 Spoit.



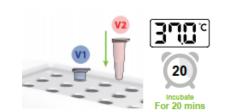
Incubate V1 mixture for 20 minutes.

3. V2 mixture preparation (Complete the preparation of V2 mixture at once)

Add 100ul of specimen into microtube.

Dissolve two tablets in the V2 Spoit.

Few times mix

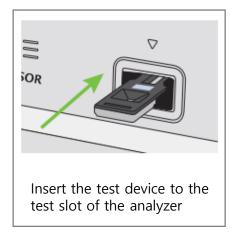


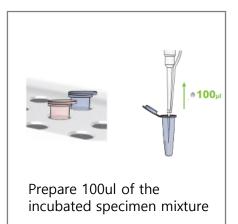
Incubate V2 mixture for 20 minutes.

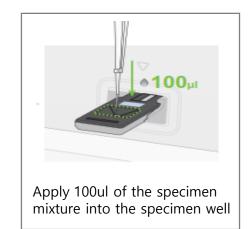
SARS-CoV-2 Neutralizing Antibody test Test procedure

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< Standard mode > Repeat for V2 mixture





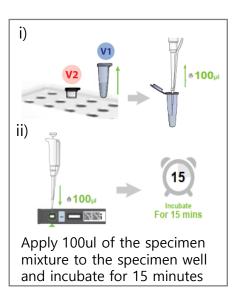


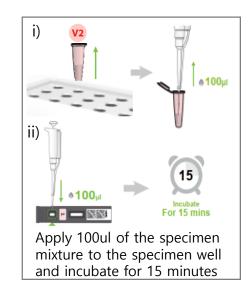


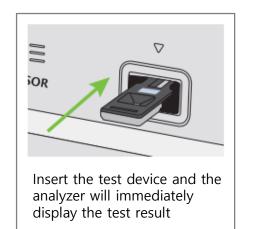
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Take the test device out and write specimen information on the label









Evaluation Result in South Korea

In recovered patients showed positive results for STANDARD F SARS-CoV-2 nAb FIA test

	Sample collected at hospitalization						Sample at release						
	М		G		Neutralizing Ab		М		G		Neutralizing Ab		Days from symptom onset to sample collection
	COI	Result	COI	Result	PI	Result	COI	Result	COI	Result	PI	Result	sample collection
1	2.26	Positive	0.03	Negative	40.2	Positive	1.17	Positive	4.23	Positive	24.7	Positive	33
2	0.04	Negative	0.01	Negative			2.07	Positive	4.42	Positive	44	Positive	28
3	0.13	Negative	0.05	Negative			0.34	Negative	7.21	Positive	41.3	Positive	27
4	0.04	Negative	0.01	Negative			3.48	Positive	7.31	Positive	83.5	Positive	20
5	1.61	Positive	0.01	Negative	28.3	Positive	5.12	Positive	7.29	Positive	97.7	Positive	17
6	0.21	Negative	0.01	Neg <mark>ative</mark>			4.22	Positive	7.3	Positive	96.4	Positive	15
7	0.46	Negative	0.01	Negative			3.6	Positive	7.32	Positive	98	Positive	14
8	0.35	Negative	0.02	Negative			1.82	Positive	7.41	Positive	98.2	Positive	13
9	0.02	Negative	0.02	Negative			4.44	Positive	7.32	Positive	90.8	Positive	13
10	1.95	Positive	0.96	Negative	40.6	Positive	1.94	Positive	7.32	Positive	96.9	Positive	12

Test results of two vaccinated people

		V1 G	roup	V2 Group		
	조건	우한	RBD	남아공 RBD		
			Result		Result	
검체종류	검체 번호	PI value	(cut-off :	PI value	(cut-off :	
			PI 20)		PI 20)	
3/5 Az 접	전*	75.6	Pos.	-5.0	-	
종	0 *	46.4	Pos.	-16.3	-	

Although the vaccine was given, it was found that the immunity to the mutation of the South Africa virus (RBD for Group 2) was negative

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