

## Evaluation of Rapid test kit detection capability for Delta Variant( B.1.617.2)

- **Experimental Objective:** Novel coronavirus produced a series of variants, we use rapid test kit to detect the recombinant NP protein of the Delta variant (also known as B.1.617.2). , so as to verify whether the test kit can be used to detected the Delta variant (also known as B.1.617.2).
- **Experimental materials:** RapidFor SARS-CoV-2 Rapid Antigen Test Kit, from Vitrosens Biyoteknoloji LTD. ŞTİ, test kit Lot number: S0221050301, S0221050302, S0221050303; The recombinant N protein of the delta variant are purified from HEK293 cell, from Shenzhen HeavyBio Inc.
- **Experimental Methods:**
  1. Diluted the recombinant NP protein of the Delta variant (also known as B.1.617.2). with sample dilution. Dilution concentration as below: 128ng/ml, 12.8ng/ml, 1.28ng/ml, 0.64ng/ml,0.32ng/ml, 0.16ng/ml, 0.08ng/ml, 0.04ng/ml.



2. used the SARS-CoV-2 Rapid Antigen Test Kit to detect the above diluted specimens. Test five times per specimen.

3, Follow the test kit instruction to test the prepared samples .

● **Experiment Result**

Experiment Test Result As below:

Dilution Concentration	Lot No.	Sample dilution solution	128ng/ml	12.8ng /ml	1.28ng/ml	0.64ng/ml	0.32ng/ml	0.16ng/ml	0.08ng/ml	0.04ng/ml
Indian mutant strain NP recombined Protein	S02210 50301	-	+	+	+	+	+	+	+	+
		-	+	+	+	+	+	+	+	+
		-	+	+	+	+	+	+	+	+
		-	+	+	+	+	+	+	+	+
		-	+	+	+	+	+	+	+	+
		-	+	+	+	+	+	+	+	+
		-	+	+	+	+	+	+	+	+
		-	+	+	+	+	+	+	+	+
		-	+	+	+	+	+	+	+	+
		-	+	+	+	+	+	+	+	+



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S02210	-	+	+	+	+	+	+	+	+	+	+	+	+	
	50302	-	+	+	+	+	+	+	+	+	+	+	+	
		-	+	+	+	+	+	+	+	+	+	+	+	
S02210	-	+	+	+	+	+	+	+	+	+	+	+	+	
	50303	-	+	+	+	+	+	+	+	+	+	+	+	
		-	+	+	+	+	+	+	+	+	+	+	+	

“-” Negative , “+” Positive

***The RapidFor SARS-CoV-2 Rapid Antigen Test Kit successfully detected recombinant N protein of the Delta variant (also known as B.1.617.2).***

#### V. Experimental conclusion

In summary, RapidFor SARS-CoV-2 Rapid Antigen Test Kit successfully detected recombinant N protein of the Delta variant (also known as B.1.617.2). This variant does not affect the test kit performance.



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