

Statement

To whom it may concern:

We Xiamen Boson Biotech Co., Ltd., a manufacturer of various types of Diagnostic Kits, having factories at 90-94 Tianfeng Road, Jimei North Industrial Park, Xiamen, P.R.C. do hereby confirm that Omicron evolved from the previous BA.1 variant into different subvariants of BA.2, BA.3, BA.4 and BA.5. The biggest difference between the different Omicron subvariants occurs on the S protein, with very little difference on the N protein, as shown in the table below:

	BA.1	BA.2	BA.3	BA.4	BA.5
N protein mutation sites	R203K	R203K	R203K	R203K	R203K
	G204R	G204R	G204R	G204R	G204R
	P13L	P13L	P13L	P13L	P13L
	S413R	S413R	S413R	S413R	S413R
	del31/33	del31/33	del31/33	del31/33	del31/33

The Boson Rapid SARS-CoV-2 Antigen Test Card detects the N protein of the SARS-CoV-2 virus. As shown in the table above, the N protein variation sites of BA.2, BA.3, BA.4, and BA.5 are completely identical, and only differ from BA.1 in the 413th amino acid. Boson internally evaluated the detection of BA.1, and external research included the detection of BA.1 and BA.2 (Denmark Statens Serum Institut), and the results were all detectable. The results of Omicron BA.2 can be found at

<https://en.ssi.dk/-/media/arkiv/subsites/covid19/diagnostik/afprvning-af-sars-cov-2-antigentests-fo-r-pvisning-af-varianter.pdf?la=en>. Because BA.3, BA.4, BA.5 and BA.2 have the same N protein variation site, So Boson reagent can also detect BA.3, BA.4 and BA.5.

XIAMEN BOSON BIOTECH CO.,LTD

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