



Add: D Building, National Biological Industrial Park of Marinelife, No.2 Binhai Road, Dapeng, Shenzhen, 518120, China.

Green Spring

## The Statement on detection of mutant viruses

Since the outbreak of the new coronavirus, it has been reliably reported that there have been at least 32 mutations in the gene sequence, all of which have resulted in the virus being more infectious and more pathogenic. The most famous strains include Alpha, which first appeared in Kent, England, Beta in South Africa, Gamma in Brazil, and Delta in India. Among them, the Delta found in India, also known as the Delta strain, invaded many countries with its extremely strong infectious power.

The new coronavirus (SARS-CoV-2 or 2019-nCoV) is a non-segmented forward RNA virus. This is the cause of the new type of coronavirus pneumonia (COVID-19), which is highly contagious in humans. The new coronavirus has several structural proteins, including spikes (S), envelope (E), membrane (M) and nucleocapsid (N).

The new coronavirus has the characteristics of strong nucleocapsid (N) protein stability. The mutant virus strains that have been found worldwide are derived from the SARS-CoV-2 20B/GR evolutionary strain (lineage B.1.1.7), including many mutation, the mutation location is the spike (S) protein of the new coronavirus, which is the location where the new coronavirus uses to bind to the cell's ACE2 receptor.

The SARS-CoV-2 Antigen Rapid Test Kit produced by Shenzhen Lvshiyuan Biotechnology Co., Ltd. is used for in vitro qualitative detection of novel coronavirus nucleocapsid (N) protein in human nasopharyngeal , oropharyngeal and anterior -Nasal swab samples.

It can be seen that the mutation sites of the Delta strain have no effect on the detection rate of the kits produced by our company. The kit is suitable for assay of Delta strain virus.

Shenzhen Lvshiyuan Biotechnology Co., Ltd.

Signature :



Chief Director :Mr Jiang

Date: 22th June, 2021

Tel: +86-755-28438788

Fax: +86-755-28938800

<https://www.lsybt.com/en/>