



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 SARS-CoV-2 virus, it has been reliably reported that there have been at least 41 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, Delta in India and Mu which was first discovered in Colombia and officially named by the WHO on August 30. Among them, Mu variant virus has recently invaded more than 40 countries and regions in the world with its strong infectivity and pathogenicity.

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 SARS-CoV-2 virus has several structural proteins, including spikes (S), envelope (E), membrane (M) and nucleocapsid (N).

The SARS-CoV-2 virus 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 SARS-CoV-2 virus 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 SARS-CoV-2 virus nucleocapsid (N) protein in human nasopharyngeal, oropharyngeal, anterior-nasal or saliva samples.

It can be seen that the mutation sites of mutated virus strains including Mu strain have no effect on the detection rate of the kits produced by our company. The kit is suitable for assay of the SARS-CoV-2 variant virus called 'Mu'.

Shenzhen Lvshiyuan Biotechnology Co., Ltd.

Signature: 

Chief Director: Mr Jiang

Date: 8th Sep. 2021

Tel: +86-755-28438788

Fax: +86-755-28938800