

DIAGNOVITAL



SARS-CoV-2 N501Y Mutation Detection Kit



Qualitative PCR-based detection of the SARS-CoV-2 N501Y Mutation

Product Description

DIAGNOVITAL® SARS-CoV-2 N501Y Mutation Detection

Kit is a real-time RT-PCR-based test for the identification of the SARS-CoV-2 N501Y mutation in respiratory specimens. This kit is only designed to test samples that have previously proven to be SARS-CoV-2 positive. The DIAGNOVITAL® SARS-CoV-2 N501Y Mutation Detection Kit detects the N501Y mutation in extracted SARS-CoV-2 RNA from nasopharyngeal and oropharyngeal swab samples during infection.

Knowing matters

The

N501Y mutation

is shared by both the alpha

and beta variants. This mutation is

located in the viral receptor-binding domain

(RBD) for cell entry and increases binding to the
angiotensin-converting enzyme 2 (ACE2) receptor.

The enhanced binding at this site perhaps explains
the initial rapid rise to dominance of the alpha strain.

Citation: SARS-CoV-2 N501Y mutation adversely affects
cellular immune response

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SARS-CoV-2 N501Y mutation adversely affects cellular immune response (https://www.news-medical.net/news/20210204/SARS-CoV-2-N501Y-mutation-adversely-affects-cellular-immune-response.aspx)

Features

- · Single mutation assay
- Identifies spike protein mutation-N501Y
- Qualitative RT-PCR method using TagMan probe technology
- Human endogenous control (HEC): RNase P (Ribonuclease P)
- Three different fluorophores are detected in 3 different channels
 - **FAM™** for the wild type allele
 - **HEX/VIC** for the N501Y allele
 - Cy5 for RNase P (HEC)
- Ready to use PCR Master mix, positive and nuclease-free dH2O controls
- RNA isolation required
- Cycling run time of 75 minutes
- Cycling temperature of 60°C

Benefits

- All Diagnovital Mutation Detection kits follow a similar procedure making implementation easy in the lab
- Excellent correlation with gold standard sequencing method
- Easy to use with pre-mixed reaction reagents and easy interpretation
- Reflex testing performed using isolated nucleic acid obtained from routine SARS-CoV-2 diagnostic test
- No disruption of routine lab operations for SARS-CoV-2 testing

Recommended Samples	Isolated RNA from Oropharyngeal and Nasopharyngeal Swabs
Extraction Systems	QIAamp® MinElute Virus Spin Kit / RTA Viral NA Isolation Kit from Swabs / Tianlong Generotex 96
Real-Time Instrument	Applied Biosystems™ QuantStudio5 Real-Time PCR System
Storage conditions	Store all components at -15°C /-25°C Avoid more than 3 freeze /Thaw cycles

Ordering Information

Product Name DIAGNOVITAL SARS-CoV-2

N501Y Mutation Detection Kit

Number Reactions/Kit 50

A1 Life Sciences Catalog Number 090R01050

For Research Use Only. Not for use in diagnostic procedures.

A1 Life Sciences Head Office

Address Maslak, Beybi Giz Plaza Meydan Sok. No:1

DIAGNOVITAL

Kat:14 D:52, 34398,

Maslak-Sarıyer/ Istanbul, Turkey

Call +90 549 718 95 96 E-Mail info@a1lifesciences.com.tr

Web http://www.a1lifesciences.com.tr

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