



SARS-CoV-2 delH69V70 Mutation Detection Kit

RUO

Qualitative PCR based detection of
SARS-CoV-2 delH69V70 Mutation

Product Description

DIAGNOVITAL® SARS-CoV-2 delH69V70 Mutation Detection Kit is a real-time RT-PCR-based test for the identification of SARS-CoV-2 delH69V70 mutation in respiratory specimens. **This kit is designed to run only samples that have previously proven to be SARS-CoV-2 positive.**

The DIAGNOVITAL® SARS-CoV-2 delH69V70 Mutation Detection Kit detects delH69V70 mutation in extracted SARS-CoV-2 RNA from nasopharyngeal and oropharyngeal swab samples during infection.

Knowing matters

B.1.1.7
lineage (a.k.a.
Alpha, 20I/501Y.V1 Variant
of Concern (VOC) 202012/01)
has a mutation in the receptor
binding domain (RBD) of the spike
protein at position 501, where the amino
acid asparagine (N) has been replaced with
tyrosine (Y). The shorthand for this mutation
is N501Y. This variant also has several other
mutations, including the 69/70 deletion which
occurred spontaneously many times and
likely leads to a conformational change in
the spike protein.

Citation:
[https://www.who.int/en/activities/
tracking-SARS-CoV-2-variants/](https://www.who.int/en/activities/tracking-SARS-CoV-2-variants/)

Features

- Single mutation assay
- Identifies spike protein deletion- delH69V70
- Qualitative RT-PCR method using TaqMan 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 delH69V70 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 Dx Real-Time PCR System Biorad CFX96 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 delH69V70 Mutation Detection Kit
Number Reactions/Kit	50
A1 Life Sciences Catalog Number	090R02050

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