



SARS-CoV-2 E484Q Mutation Detection Kit

RUO

**Qualitative PCR-based detection of the
SARS-CoV-2 E484Q Mutation**

Product Description

DIAGNOVITAL® SARS-CoV-2 E484Q Mutation Detection Kit is a real-time RT-PCR-based test for the identification of the SARS-CoV-2 E484Q 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 E484Q Mutation Detection Kit** detects E484Q mutation in **extracted SARS-CoV-2 RNA** from from nasopharyngeal and oropharyngeal swab samples during infection.

**Knowing
matters**

E484Q mutation has an increased stabilizing effect on the spike protein that could facilitate more effective binding to the human ACE2 receptor, resulting in an increase in host cell entry.

Citation:
<https://doi.org/10.1101/2021.04.29.441933>

Features

- Single mutation assay
- Identifies spike protein mutation- E484Q
- 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 E484Q 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 57°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 E484Q Mutation Detection Kit
Number Reactions/Kit	50
A1 Life Sciences Catalog Number	090R05050

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

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