



## SARS-CoV-2 E484K Mutation Detection Kit

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Qualitative PCR-based detection of the SARS-CoV-2 E484K Mutation

### Product Description

**DIAGNOVITAL® SARS-CoV-2 E484K Mutation Detection Kit** is a real-time RT-PCR-based test for the identification of the SARS-CoV-2 E484K 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 E484K Mutation Detection Kit** detects E484K mutation in **extracted SARS-CoV-2 RNA** from nasopharyngeal and oropharyngeal swab samples during infection.

Knowing  
matters

The E484K mutation occurs in different variants including the beta (lineage B.1.351) and gamma (lineage B.1.1.28) variants. The mutation is in the spike protein and appears to have an impact on the body's immune response and, possibly, vaccine efficacy.

Citation: Public Health England. Investigation of novel SARS-CoV-2 variant: technical briefing  
[https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/957504/Variant\\_of\\_Concern\\_VOC\\_202012\\_01\\_Technical\\_Briefing\\_5\\_England.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/957504/Variant_of_Concern_VOC_202012_01_Technical_Briefing_5_England.pdf)

## Features

- Single mutation assay
- Identifies spike protein mutation- E484K
- 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 E484K 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

<b>Recommended Samples</b>	Isolated RNA from Oropharyngeal and Nasopharyngeal Swabs
<b>Extraction Systems</b>	QIAamp® MinElute Virus Spin Kit / RTA Viral NA Isolation Kit from Swabs / Tianlong Generotex 96
<b>Real-Time Instrument</b>	Applied Biosystems™ QuantStudio5 Dx Real-Time PCR System Biorad CFX96 Real-Time PCR System
<b>Storage conditions</b>	Store all components at -15°C / -25°C Avoid more than 3 freeze /Thaw cycles

### Ordering Information

Product Name                      DIAGNOVITAL SARS-CoV-2  
  E484K Mutation Detection Kit

Number Reactions/Kit            50

A1 Life Sciences Catalog Number 090R03050

#### A1 Life Sciences Head Office

Address    Maslak, Beybi Giz Plaza Meydan Sok. No:1  
                  Kat:14 D:52, 34398,  
                  Maslak-Sarıyer/ Istanbul, Turkey

Call         +90 549 718 95 96

E-Mail      info@allifesciences.com.tr

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

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