

DIAGNOVITAL



SARS-CoV-2 P681H Mutation Detection Kit

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Qualitative PCR-based detection of the
SARS-CoV-2 P681H Mutation

Product Description

DIAGNOVITAL® SARS-CoV-2 P681H Mutation Detection Kit is a real-time RT-PCR-based test for the identification of the SARS-CoV-2 P681H 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 P681H Mutation Detection Kit** detects P681H mutation in **extracted SARS-CoV-2 RNA** from nasopharyngeal and oropharyngeal swab samples during infection.

Knowing matters

The P681H mutation was observed as early as March 2020 in samples worldwide, characterizing the global spread of the Alpha variant of concern. It is been suggested that the P681H mutation enhances the transmissibility of the virus by facilitating a conformational change in the S protein following protease activity at the cell membrane.

The P681H mutation may be used by researchers and epidemiologists in the identification of variant Alpha and also in discriminating variants Mu versus Beta and Gamma.

Citation:

<https://www.mdpi.com/2076-393X/9/6/616/html>
<https://covariants.org/variants>

Features

- Single mutation assay
- Identifies spike protein mutation- P681H
- 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 P681H 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

SPECIFICATIONS

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	BIORAD CFX 96 Touch Real Time PCR System, Gentier 96E/96R real-time quantitative fluorescence PCR system
Storage conditions	Store all components at -15°C / -25°C Avoid more than three freeze /Thaw cycles.

Ordering Information

Product Name	DIAGNOVITAL SARS-CoV-2 P681H
	Mutation Detection Kit
Number Reactions/Kit	50
A1 Life Sciences Catalog Number	090R18050

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

A1 Life Sciences Head Office

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