

SNPsig® SARS-CoV-2 real-time PCR mutation detection/allelic discrimination kits

For
Research
Use Only

The COVID-19 pandemic has proven to be complex and multifaceted, and that is why the Novacyt Group are constantly innovating. This latest portfolio of assays to identify Single Nucleotide Polymorphisms (SNPs) critical to each variant, is called SNPsig® - one of the first commercially available range of assays for variant detection. The SNPsig® portfolio for detecting variants complements Novacyt's existing range of PCR COVID-19 assays and enables a funnelling of proven expertise into the dynamic world of variant detection.

Assay Type	Detection Profile
SNPsig® SARS-CoV-2 (Beta)	Beta variant also known as 20H/501Y.V2 (SA)
SNPsig® SARS-CoV-2 (Gamma)	Gamma variant also known as 20J/501Y.V3 (Brazil)
SNPsig® SARS-CoV-2 (Zeta)	Zeta variant also known as 20B/S.484K (Brazil)
SNPsig® SARS-CoV-2 (Kappa)	Including the variants with E484Q and/or L452R mutations. Kappa variant also known as VUI-21APR-01 and VUI-21APR-03 (India)
SNPsig® SARS-CoV-2 (N501Y)	Variants with the N501Y mutation (Including Alpha, Beta & Gamma variants)
SNPsig® SARS-CoV-2 (L452R)	Variants with the L452R mutation
SNPsig® SARS-CoV-2 (VUI-21MAR-02)	SARS-CoV-2 variant VUI-21MAR-02 (P3) (Theta)
SNPsig® SARS-CoV-2 (B.1.1.519)	SARS-CoV-2 B.1.1.519 (Mexico) variant

Novacyt Group has a world class bioinformatics team that have determined robust unique identifiers to enable detection of specified variants of concern.

These identifiers are utilised alongside documented COVID-19 mutations in this range of products.

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Read the published paper on a prospective diagnostic study to measure the accuracy of detection of SARS-CoV-2 Variants of Concern utilising a novel RT-PCR GENotyping algorithm in an In silico Evaluation (VOC-GENIE)
<https://doi.org/10.1101/2021.05.05.21256396>

KEY FEATURES

- Can be used as reflex testing as only extracted RNA is needed.
- Streamlined workflow for easy use with readily prepared Mastermix.
- Open platform compatibility.
- No cold chain shipping.
- Results in under 2 hours.

KEY BENEFITS

- An alternative to next generation sequencing and S gene target failure (SGTF).
- Pivotal in the role of screening for SARS-CoV-2 Variants for the purpose of genomic surveillance studies.

Compatibility

Sample Types	PCR Platform
RNA extraction used for diagnosis	Must be able to read fluorescence through the FAM and HEX channels Cy5 (optional) for the use of internal control

SNPsig® SARS-CoV-2 Kappa requires FAM, HEX, ROX and Cy5 channels.

Ordering Information

	SNPsig® SARS-CoV-2 (N501Y)	SNPsig® SARS-CoV-2 Gamma	SNPsig® SARS-CoV-2 Beta	SNPsig® SARS-CoV-2 (L452R)	SNPsig® SARS-CoV-2 Zeta	SNPsig® SARS-CoV-2 Kappa	SNPsig® SARS-CoV-2 (VUI-21MAR-02)	SNPsig® SARS-CoV-2 (B.1.1.519)
Product codes	R00131	R00134	R00135	R00146	R00147	R00149	R00151	R00148
Pack size	96 reactions (Mastermix included)							

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