

**PBCheck COVID-19 Ag & SARS-CoV-2 variants of concern as of 26  
November 2021***Nov 29, 2021*

Recently, new SARS-CoV-2 virus variants have been observed worldwide. As of 31<sup>st</sup> May 2021, WHO proposed labels for global SARS-CoV-2 variants of concern (VOC) and variants of interest (VOI) to be used alongside the scientific nomenclature in communication about variants to the public. The variant types are constantly being updated and they are of concern because of their impact on transmissibility and immunity. Until now, such variants including Omicron were defined by the presence of the multiple spike protein mutations as summarized in Table 1.

PBCheck COVID-19 Ag is designed to detect nucleocapsid protein (NP) of SARS-CoV-2 virus. Therefore, the current SARS-CoV-2 variants with spike protein mutations does not influence the performance PBCheck COVID-19 Ag. PBCheck COVID-19 Ag will detect SARS-CoV-2 variants with the same performance of other currently known strains of SARS-CoV-2 virus.

Table 1. Information on SARS-CoV-2 variants of concern (VOC)<sup>1</sup>

WHO label	Lineage + additional mutations	Country first detected	Spike mutations of interest	Year and month first detected
Beta	B.1.351	South Africa	K417N, E484K, N501Y, D614G, A701V	September 2020
Gamma	P.1	Brazil	K417T, E484K, N501Y, D614G, H655Y	December 2020
Delta	B.1.617.2	India	L452R, T478K, D614G, P681R	December 2020
Omicron	B.1.1.529	South Africa and Botswana	A67V, Δ69-70, T95I, G142D, Δ143-145, Δ211-212, ins214EPE, G339D,	November 2021



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			S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H, N764K, D796Y, N856K, Q954H, N969K, L981F	
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<sup>1</sup> European Centre for Disease Prevention and Control. SARS-CoV-2 variants of concern as of 26 November 2021.

For more information or any questions about this product, please contact customer support at:  
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