

Information on mutations of the spike protein of SARS-CoV-2

The lineage defining mutations of the spike protein of SARS-CoV-2 are presented in the table below. The different mutations can be detected with the use of gerbion® real time RT-PCR kits:

virellaSARS-CoV-2 mutant (gerbion cat. No. G01132):

+	+
---	---

 $\Delta 69/70$, $\Delta 241/243$, N501Y, H655Y

virellaSARS-CoV-2 mutant 2 (gerbion cat. No. G01136):

+	+
---	---

E484K, N501Y

virellaSARS-CoV-2 mutant 3 (gerbion cat. No. G01138):

+

L452R, P681R

Lineage			$\Delta 69/70$	$\Delta 241/243$	L452R	E484K	N501Y	H655Y	P681R
<u>B.1.1.7</u>	α	UK	+	-	-	-	+	-	P681H
<u>B.1.351</u>	β	ZA	-	+	-	+	+	-	-
<u>P.1</u>	γ	BRA	-	-	-	+	+	+	-
<u>B.1.617.2</u>	δ	IND	-	-	+	-	-	-	+
<u>B.1.427</u>	ϵ	CAL	-	-	+	-	-	-	-
<u>B.1.429</u>	ϵ	CAL	-	-	+	-	-	-	-
<u>B.1.526</u>	ι	NY	-	-	-	+	-	-	-
<u>B.1.526.1</u>	ι	NY	-	-	+	-	-	-	-
<u>B.1.617.1</u>	κ	IND	-	-	+	E484Q	-	-	+
<u>B.1.617.3</u>		IND	-	-	+	E484Q	-	-	+
<u>P.2</u>	ζ	BRA	-	-	-	+	-	-	-
<u>P.3</u>	θ	PHI	-	-	-	+	+	-	P681H

Underlined lineages are listed as Variants of Concern (VoC). The other lineages are listed as Variants of Interest (VoI).

Colour Code: red (G01132), purple (G01132, G01136), blue (G01136), green (G01138).

United Kingdom (UK), South Africa (ZA), Brasilia (BRA), India (IND), California (CAL), New York (NY), Philippines (PHI).