

## Information

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## EurobioPlex SARS-CoV-2 Variants, Detection & Typing

RT-PCR designed by in silico alignments of all known SARS-CoV-2 sequences to date, including UK, SA and BR/JP variants.

- SARS-CoV-2 variant UK (B1.1.7) based on detecting the del69-70 specific deletion and the N501Y mutation;
- SARS-CoV-2 variant SA (B1.351) based on detecting the D80A mutation and the E484K mutation;
- SARS-CoV-2 variant BR/JP (P1) based on detecting the N501Y mutation and the E484K mutation;
- SARS-CoV-2 variant BR7JP (P2) based on detecting the E484K mutation without the N501Y mutation.

Test principle	SARS-CoV-2 variants detection and typing
Technology	RT PCR using 2 Oligomixes
Targets and genes	1 target on RdRp-Gen; 1 target on N-Gen
Deletion and mutations	Del69-70; N501Y; D80A; E484K
Sample type	RNA extracts
Controls included	Positive/Negative Control; RNA Control
Cycler	CFX96, SmartCycler II, DTprime, LC480, Rotor-Gene Q, Quantstudio 5
Description	EurobioPlex SARS-CoV-2 Variants, Detection & Typing
Produced by	Eurobio-Scientific, Les Ulis, France
Packaging	96 reactions (46 patient samples)
Reference	EBX-044

## Interpretation of typing if SARS-CoV-2 is detected with either of the oligomix

Oligomix	Oligomix 1		Oligomix 2	
	FAM	HEX	FAM	HEX
Canal				
Deletion or mutation	69-70 Deletion	N501Y	D80A	E484K
«Wuhan»: SARS-CoV-2 hCoV-19/Wuhan/2019 (WIV04 consensus sequence on the GISAID database (EPI_ISL_402124))	-	-	-	-
<i>Variants</i>				
UK 20I/501Y.V1	+	+	-	-
SA 20H/501Y.V2	-	+	+	+
BR1 20J/501Y.V3	-	+	-	+
BR2 20B/S.484K	-	-	-	+

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For further information please contact:  
Pour plus d'information, veuillez contacter:

[www.tecomedical.com](http://www.tecomedical.com)



A EUROBIO SCIENTIFIC COMPANY

Switzerland / Headquarters

**TECOmedical AG**

Gewerbestrasse 10  
4450 Sissach

Phone +41 61 985 81 00

Fax +41 61 985 81 09

Mail [info@tecomedical.com](mailto:info@tecomedical.com)

Germany

**TECOmedical GmbH**

Wasserbreite 57  
32257 Bünde

Phone +49 52 23 985 99 99

Fax +49 52 23 985 99 98

Mail [info@tecomedical.com](mailto:info@tecomedical.com)

Benelux

**TECOmedical Benelux BV**

Prins Willem-Alexanderlaan 301  
7311 SW Apeldoorn, The Netherlands

Phone +31 30 307 87 30

Fax +31 30 307 49 39

Mail [benelux@tecomedical.com](mailto:benelux@tecomedical.com)

Austria

**TECOmedical AG**

Phone 0800 20 40 66

Fax 0800 20 40 55

Mail [info@tecomedical.com](mailto:info@tecomedical.com)