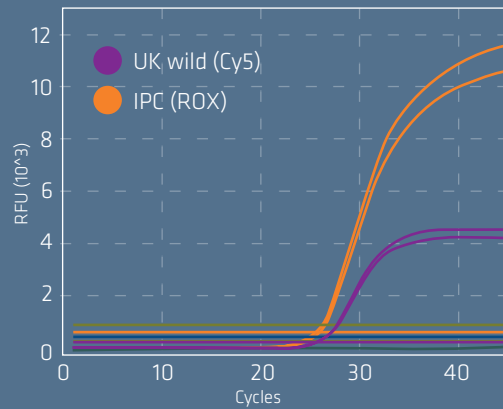# CORONA Var

SARS-CoV-2 **Variant Detection KIT**

With the spread of novel variants, SARS CoV-2 detection has reached the next level. Beyond presence, it's become also relevant to identify which novel variant of the virus has infected the patient. Novel variants are discovered only by sequencing but can be monitored and followed epidemiologically on a larger scale using specially designed Real Time PCR assays. CoronaVar is a modified version of Menarini SARS CoV-2 Real Time PCR detection kit, specifically designed to detect and distinguish the UK variant (B.1.1.7 or VOC 202012/01) from wild type and from both South African (B.1.351 or 20H/501YV2) and Brazilian (P.1).
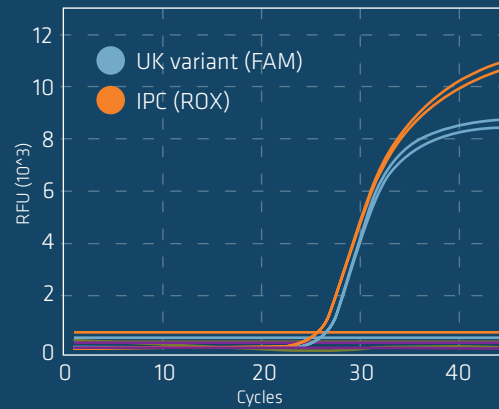
	Targets		Reporter
United Kingdom (UK)	Wild	H69/V70 wild	Cy5
	Variant	H69/V70 del	FAM
South Africa (SA), Brazil (BZ)	Variant	E484K	VIC
IPC (Internal Control)	Human RNase P		ROX

The kit targets with 2 color probes the 69/70 deletion (one color each for wild type and mutant) to determine the presence of the UK variant, a third probe determines the presence of E484K mutation, characteristic of both the Brazilian and South African variants and a 4th color probe is used for the amplification of an internal control (RNAseP).
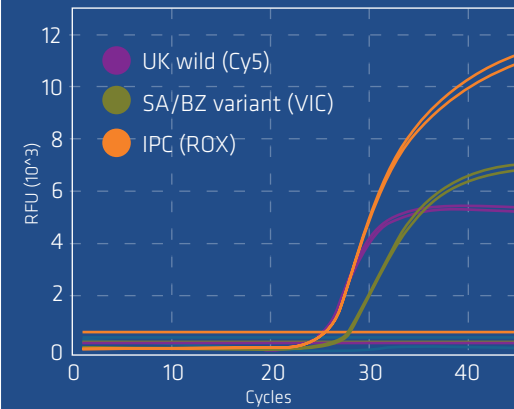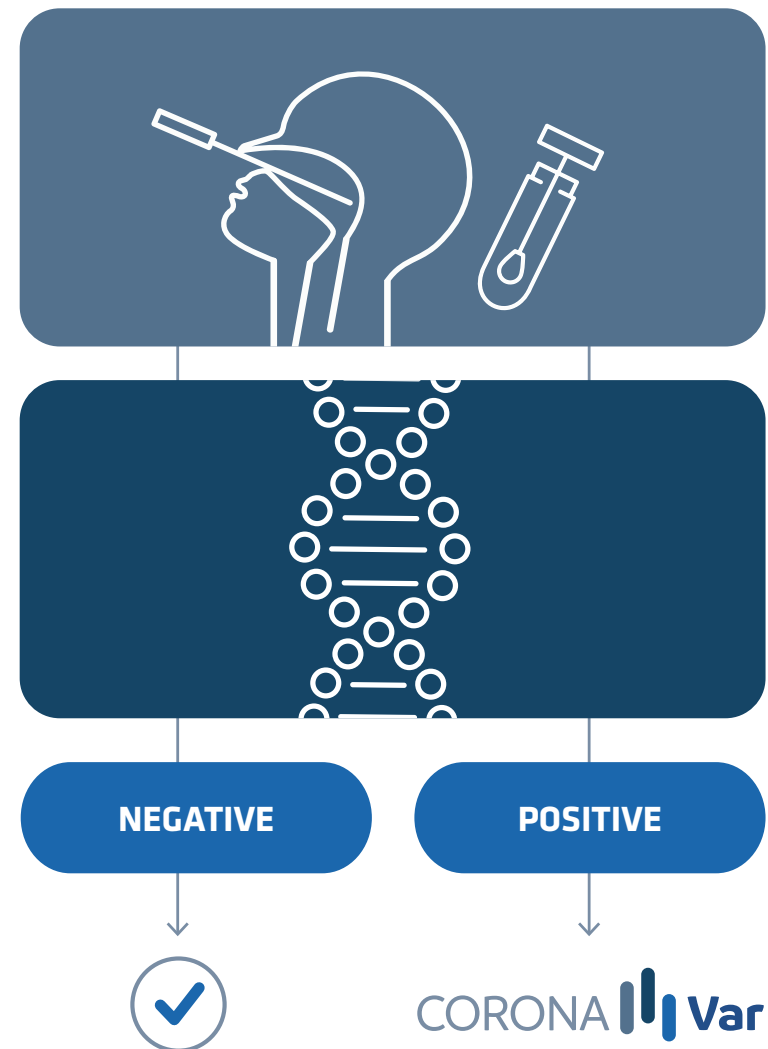

< Wild (No variant)>

- UK wild (Cy5)
- IPC (ROX)

< UK variant (H69/V70 del)>

- UK variant (FAM)
- IPC (ROX)

< SA/BZ variant (E484K)>

- UK wild (Cy5)
- SA/BZ variant (VIC)
- IPC (ROX)

CORONA Var

CoronaVAR is for Research Use Only and is meant as a reflex test to verify the exact identitiy of the SARS CoV-2 virus present in patients detected positive with general purpose IVD detection kits. Results are available in 90 minutes from 15 uL of the same original eluate used for the primary detection test*.

The CoronaVAR test can be automated on Menarini Omnia 75 and Omnia PRO workstations either starting from VTM of positive samples, through RNA extraction and plate setup, or for simple plate setup, starting from the RNA elution of the primary PCR test extraction.

* Check recommended RNA storage conditions for eluates between first and second test

NEGATIVE

POSITIVE

CORONA Var

CORONA Var

Cases	Targets				Result
	UK		SA/BZ	IPC* (ROX)	
	H69/V70 wild (Cy5)	H69/V70 del (FAM)	E484K (VIC)		
1	+	-	-	+ or -	Wild (No variant)
2	-	+	-	+ or -	UK variant (H69/V70 del)
3	+	-	+	+ or -	SA/BZ variant (E484K)
4	-	+	+	+ or -	UK, SA/BZ variant (H69/V70 del, E484K)
5	-	-	-	+	Negative**
6	-	-	-	-	Invalid*** (Re-testing)

Menarini is committed to help the diagnostic community fight against emerging variants monitoring the evolution of viral genome to both recognize mutations that could compromise the performance of our PCR detection kits and to develop new versions of our CoronaVAR assay to dynamically target novel variants spread. Contact us to discover our customization options.

CORONA Var

SARS-CoV-2 **Variant Detection KIT**

Technical Specification

Real Time PCR detection with 4 colors TaqMan probes

Compatible with most Real Time PCR instruments in the market

Fluorescence channels: FAM, VIC, ROX, Cy5

Sample input: up to 15uL of RNA elution from mag beads or column extraction

Ordering information

CODE	description	Q.ty
54425	CoronaVar SARS COV-2 variant identification kit	100 rnx
51586	Covid-19 detection kit - IVD	100 rnx
51651	HighPrep DNA/RNA extraction Kit	384 rnx
52180	Omnia Pro System	

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Contacts: www.**menarinidiagnostics**.com