SARS-CoV-2

Choosing the Right Control for Your Application

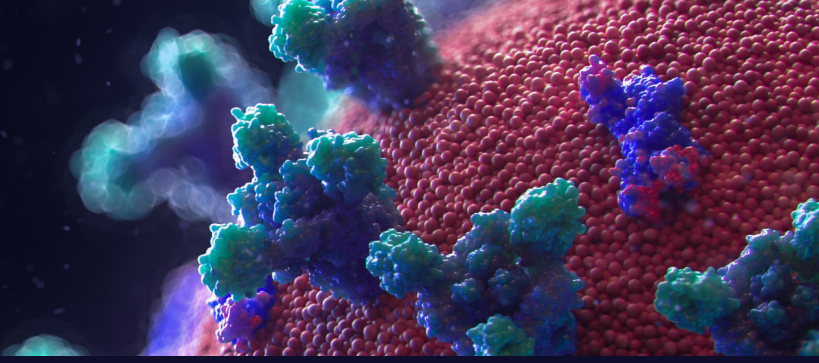


Photo: Fusion Medical Animation Ltd.

Microbiologics IVD SARS-CoV-2 Product Portfolio

COVID-19 has been a disruptive force worldwide. Diagnostic manufacturers and clinical laboratories have responded to the shear enormity of the pandemic with a proliferation of tests that have different sample collection methods and gene targets, among other differences. In the age of Emergency Use Authorization, it's crucial to implement an independent control that challenges your molecular applications. The question remains, **what control do I use and when?**

Microbiologics provides the independent QC you need to streamline your workflow with reliable results.

Table 1. IVD SARS-CoV-2 Product Portfolio

Helix Elite Product Name	SARS-CoV-2 Synthetic RNA (N Gene Targets)	SARS-CoV-2 Synthetic RNA (N/E/RdRp/S Gene Targets)	SARS-CoV-2 Process Control (Pellet)	SARS-CoV-2 Process Control (Swab)	Inactivated SARS-CoV-2 Whole Virus (Pellet)	Inactivated SARS-CoV-2 Whole Virus (Swab)
Helix Elite Catalog Number	**HE0060S**	**HE0061S**	**HE0062S**	**HE0063S**	**HE0065N**	**HE0066NS**
Gene Targets	* N1, N2 & N3	* N/E/RdRp/S	* Orf1ab/RdRP/S/E/ ORF8/M/N	* Orf1ab/RdRP/S/E/ ORF8/M/N	Full genome	Full genome
Format	Dried Synthetic RNA	Dried Synthetic RNA	Synthetic RNA encapsulated in a phage protein envelope Lyophilized Pellet	Synthetic RNA encapsulated in a phage protein envelope Lyophilized Swab	Inactivated Whole Virus Lyophilized Pellet	Inactivated Whole Virus Lyophilized Swab
Kit Configuration	1 vial of dried synthetic RNA & 1 vial (1.5ml) of molecular standard water	1 vial of dried synthetic RNA & 1 vial (1.5ml) of molecular standard water	5 individually packaged lyophilized pellets & 5 vials (1.5ml each) of molecular standard water	5 individually packaged swabs	5 individually packaged lyophilized pellets & 5 vials (1.5ml each) of molecular standard water	6 individually packaged swabs
Storage	2-25 degrees C	2-25 degrees C	2-25 degrees C	2-25 degrees C	2-25 degrees C	2-25 degrees C
In Use Stability	Aliquots can be stored at -20 degrees C Thawed aliquots are single-use	Aliquots can be stored at -20 degrees C Thawed aliquots are single-use	5 days hydrated at 4 degrees C Multi-use	5 days hydrated at 4 degrees C Single-use	5 days hydrated at 4 degrees C Multi-use	5 days hydrated at 4 degrees C Single-use
Purpose	Quality control for amplification/detection	Quality control for amplification/ detection	Quality control for extraction, amplification and detection	Quality control for extraction, amplification and detection	Quality control for extraction, amplification and detection	Quality control for extraction, amplification and detection

*Refer to **Table 2** for ***Nucleotide sequences highlighted in the Synthetic RNA and Process Controls***

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Consistent, Accurate Results Start with the Right Controls & the Right Knowledge

Table 2. Illustrates the nucleotide sequences highlighted in the Synthetic RNA and Process Controls (Catalog number HE0060S, HE0061S, HE0062S and HE0063S)

Helix Elite Catalog Number	HE0060S	HE0061S	HE0062S	HE0063S
Genomic Region	**Targets**			
Orf 8	NA	NA	Complete genomic region for gene: 14,250 ..14,450	Complete genomic region for gene: 14,250 ..14,450
Orf1ab/RdRP	NA	IP2, IP4, and one additional WHO consensus sequences: 12,640 ..12,825 13440 ..16,238	5 targets including IP2 and IP4: 12,690 ..12,797 13,342 ..13,460 14,080 ..14,186 14,250 ..14,450 15,431 ..15,530	5 targets including IP2 and IP4: 12,690 ..12,797 13,342 ..13,460 14,080 ..14,186 14,250 ..14,450 15,431 ..15,530
S (Spike)	NA	Orf1b, Pancorona, and other targets: 21,562 ..25,384	Orf1b, Pancorona, and other targets: 18,778 ..18,909 24,354 ..24,900	Orf1b, Pancorona, and other targets: 18,778 ..18,909 24,354 ..24,900
M (Membrane Protein or Matrix)	NA	NA	Complete genomic region for gene: 26,496 ..27,215	Complete genomic region for gene: 26,496 ..27,215
E (Envelope)	NA	Complete genomic region for gene: 26,245 ..26,472	Complete genomic region for gene: 26,245 ..26,427 26,269 ..26,381	Complete genomic region for gene: 26,245 ..26,427 26,269 ..26,381
N (Nucleocapsid)	Complete genomic region for gene: 28,237 ..29,280	Complete genomic region for gene: 28,237..29,280	Complete genomic region for gene: 28,237 .. 29,280	Complete genomic region for gene: 28,237 .. 29,280

To learn more about our complete line of QC, including our negative controls and RUO high-titer SARS-CoV-2 materials, visit our SARS-CoV-2 product page at **www.microbiologics.com**.

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