

COVID-19

CORONAVIRUS

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COVID-19 MOLECULAR TESTING & SAMPLE COLLECTION SOLUTIONS

As a global partner providing laboratory and diagnostic solutions, Lasec® is committed to assisting countries with **COVID-19 Molecular Testing Kits, Emergency Preparedness & Response Kits and Instrumentation** to address the Coronavirus outbreak.

HOW TO TEST IT

Standard Operating Procedures have been developed by WHO, CDC, in-country Ministries of Health and their appointed Task Teams to address sample collection procedures for both respiratory samples and blood samples to be processed using verified molecular methods.

Lasec® has introduced the **following standardised sample collection kits:**



SPECIMEN TYPE	AVAILABLE KITS	KIT CODE
RESPIRATORY	Sputum Sample Collection	KKIT-EXP50SU-COVID19-LR-BLTA
	Nasopharyngeal Sample Collection with Universal Transport Medium	KKIT-EXP50SU-COVID19-UR-NSPW
	Oropharyngeal Sample Collection with Universal Transport Medium	KKIT-EXP50SU-COVID19-UR-RSW
	Combination Kit for Nasopharyngeal and Oropharyngeal Sample Collection with Universal Transport Medium	KKIT-EXP50SU-COVID19-UR-NPR
BLOOD	Serum Sample Collection	KKIT-EXP50SU-COVID19-SSC

* *Additional items provided in each single use kit:*

- Examination Gloves
- Barcode Labels
- Transport bag

Optional items:

- Biohazard Bag

THE BENEFITS OF USING STANDARDISED SAMPLE COLLECTION KITS

- All necessary items for efficient sample collection are available in one **Single Use Kit**
- Minimise time spent procuring the individual commodities from various suppliers
- Assists with stock control and minimises wastage
- Ease of transportation of collected samples from the ports of entry or the field to the laboratory
- Patient identification and traceability of samples with ease of integration into in-country LIMS with optional barcodes for efficient tracking of the patients tested and monitoring the potential spread of the virus in country
- The sample collection kits are customisable and are available in 50 test kits

With the global increase in efforts to screen, diagnose and treat for Coronavirus disease, Lasec® offers the following **kits and instrumentation for COVID-19 testing:**



	PRODUCT	DESCRIPTION
COMPLETE TEST KIT	COVID-19 Molecular Detection Kit (CE-IVD and SAHPRA approved)	Complete molecular detection kit. Including target genes Primer-Probe mixture, Control Template, and One-Step RT-qPCR enzyme supermix in a ready to use format. Suitable for use with nasopharyngeal and oropharyngeal swabs samples.
ISOLATION AND PURIFICATION	RNA Purification 96-Well Kit	RNA Purification 96-Well Kits provides a rapid method for the high-throughput isolation and purification of total RNA from a range of samples. Purification is based on 96-well plate column chromatography using a proprietary resin as the separation matrix. Requires the use of a plate centrifuge.
	RNA Purification Spin Column Kit	RNA Purification Spin Column Kits provides a rapid method for the isolation and purification of total RNA from a range of samples. Purification is based on single tube spin column chromatography using a proprietary resin as the separation matrix. Requires the use of a microlitre centrifuge.
TEST REAGENTS	Reliance One-Step Multiplex Supermix	Use the Reliance One-Step Multiplex Supermix for sensitive amplification of up to 5 targets in a single reaction. Reliance One-Step Multiplex Supermix is an ideal solution for multiplexed RT-qPCR, especially for pathogen / viral detection and high throughput screening applications.
	iTaq™ Universal Probes One-Step Kit	Fast and convenient solution for real-time PCR using the powerful combination of iScript RNase H+ MMLV reverse transcriptase and hot-start iTaq DNA Polymerase in one reaction.
	COVID-19 Standards and Controls	The COVID-19 Standard contains synthetic COVID-19 RNA transcripts and human genomic DNA, allowing laboratories to test the entire process of a molecular assay including extraction, amplification, and detection of the virus. The standard also contains gene targets of SARS-CoV-2 for complete coverage paired with human genomic DNA background.
CONSUMABLES	96-Well PCR Plates, Optically Clear Plate Seals, and Sterile Filtered Pipette Tips	High quality PCR plastics. Certified to be free of DNase, RNase, and human genomic DNA.
INSTRUMENTATION	CFX96 Touch Real-Time PCR Detection System (RUO or IVD)	The CFX Touch System is a powerful, precise, and flexible real-time PCR detection system. This six-channel (five colours and one FRET channel) real-time PCR instrument combines advanced optical technology with precise temperature control to deliver sensitive, reliable detection for singleplex or multiplex reactions.

Lasec® is available to assist countries to increase capacity by addressing in-country resource requirements for **Sample Collection and Molecular Testing** to effectively respond to COVID-19.

Please visit the [WHO](#) and [NICD](#) websites for updated resources and information on the outbreak.

For more information on the Sample Collection and Molecular Test Kits, please contact us!

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