

QuantuMD<sub>ق</sub>

The Future of Diagnostics

Q-POC™ SARS-CoV-2 Assay





## Q-POC SARS-CoV-2 Assay

Navigating the COVID-19 pandemic is challenging. There are many reasons a rapid PCR test may be needed - such as to travel, undergo scheduled or unscheduled medical procedures, attend a workplace and many more. This can be stressful for the individual, and complex for testing providers.

From collecting samples to reading results, the Q-POC™ SARS-CoV-2 Assay has been developed considering patient and user experience at every step of the testing process. The test delivers rapid PCR results in 30 minutes at the point of need, on the accurate and portable Q-POC™ platform.

Act fast with PCR results you can trust in 30 minutes

Safety and simplicity at the point of need

Comfortable mid-nasal swab for a painless testing experience

Unique three-gene assay for robust, accurate and variant-proof results

High quality COVID-19 PCR testing with the simplicity and speed of a lateral flow test



## Speed at the Point of Need

Q-POC is a fully automated sample-to-result PCR testing system with the same timeframe as a lateral flow test - compared with up to 72 hours wait time for PCR lab-based tests. Simply collect a sample, with just one-minute hands-on time, and test immediately. The intuitive software makes PCR accessible to any trained user.

The Q-POC SARS-CoV-2 Assay can reduce the stress and suffering caused by lab-based PCR testing by providing accurate results in approximately 30 minutes at the point of need.

	01	02	03	04	05
Lateral Flow Test	Collect nose & throat sample	Rotate swab in tube for 15 seconds, squeeze & cap	Transfer sample to test strip	Set timer for 30 minutes	Look for lines to interpret result
Q-POC™ THE FUTURE OF DIAGNOSTICS	Collect nasal sample	Put swab in tube, cap & invert five times	Transfer sample to cassette and insert the cassette into Q-POC	Return in 30 minutes	Read positive/negative on-screen



Simplicity at the Point of Need

Our mission is to offer genuinely affordable, highly multiplexed capability at the point of need

Quick: sample to results in <b>approximately 30 minutes</b>	Portable, battery and mains operable, allowing it to be <b>deployed in any location</b>	Very simple to use: Q-POC can be <b>used by any trained individual</b>
Sealed cassettes <b>remove the risk of contamination</b> once a sample is applied and ensures accurate readings	<b>Improved patient experience</b> due to mid-nasal swab collection	High sensitivity: <b>no indeterminate result</b>
High specificity: <b>100% coverage of all known strains</b> and sequences	Targets 3 loci – S gene, N gene, Orf1 region – <b>providing security and accuracy of results</b> against variants	Single use test cassette with on-board lyophilised reagent for room temperature storage allowing <b>ease of shipping and storage</b> at the point of testing



Sustainability at the Point of Need

COVID-19 testing is set to be a long-term requirement.

Q-POC offers the optimum solution to meet this need, thanks to its speed, simplicity and accuracy.

Looking to the future, our next Q-POC test will be a respiratory panel providing multiplex diagnostics across several respiratory infections, including Flu A and Flu B.

Q-POC provides a long term solution for sustainable respiratory infection control.

  
SIMPLE

  
FAST

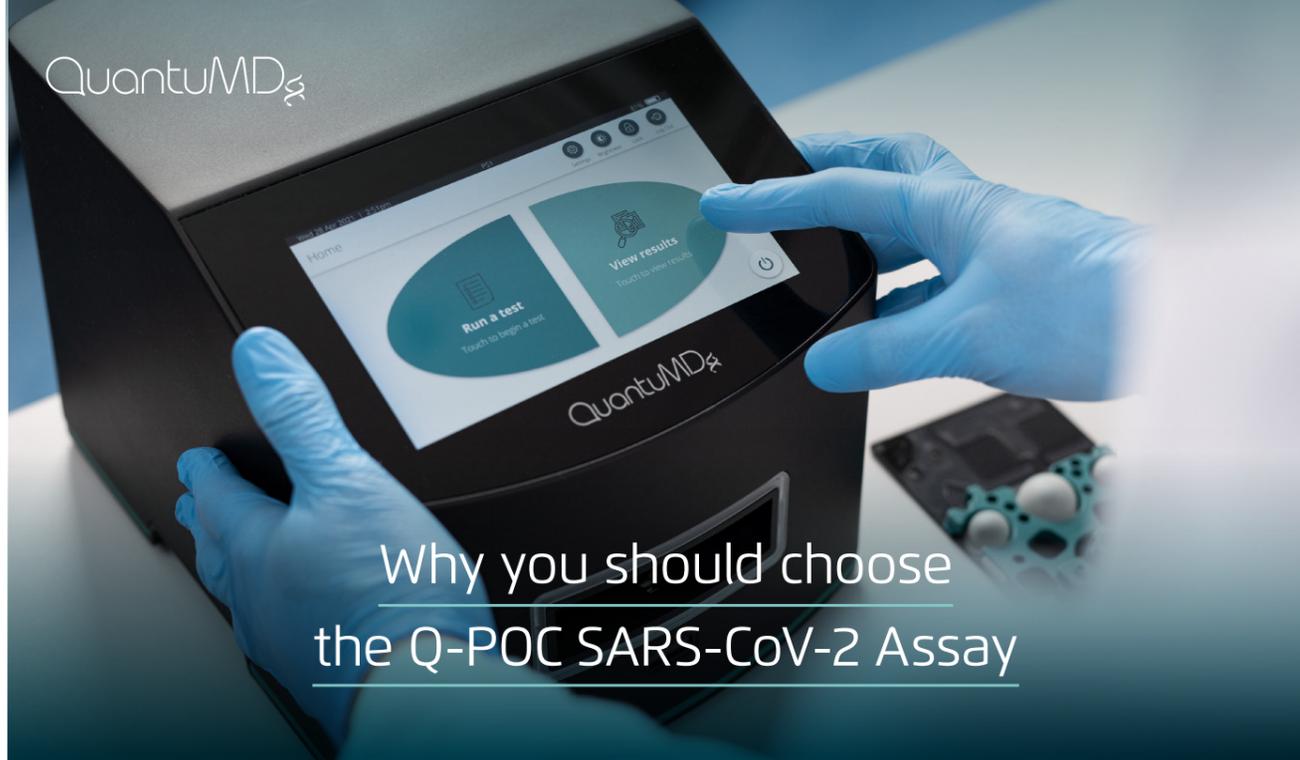
  
ACCURATE

  
SAFE

  
POWERFUL



  
THE FUTURE OF DIAGNOSTICS



## Why you should choose the Q-POC SARS-CoV-2 Assay



Collect samples correctly every time, with a comfortable nasal swab that can be taken by any trained individual – meaning a healthcare professional is not needed



Everything you need for testing at the point of need is provided, reagents are contained within the sealed cassette



Swab collection kits and testing cassettes can be stored at room temperature for your convenience – meaning a refrigerator is not required



Unique three-gene assay designed to minimise false positives with no indeterminate results, giving you the actionable answers you need first time



Gene targets that won't be impacted by vaccines, therapeutics or mutations so you can test with confidence in the face of emerging variants, with an assay designed for the future of the pandemic



Reassurance with quality controls built into every test, ensuring any user will know they've collected the sample and run the test correctly preventing false negatives

# Q-POC™ SARS-CoV-2 Assay

## technical specifications

CONTENTS	Test cassette	Q-POC SARS-CoV-2 Assay test cassette, individually sealed in foil pouch	
	Sample collection kit	Copan flexible FLOQSwabs® and sample collection tube containing 3ml of Mswab™	
ASSAY	Specimen type	Nasal mid-turbinate	
	Assay	S, N, Orf1 100% coverage of all currently known SARS-CoV-2 sequences*	
	Sample process control	RNase P	
	Rehydration control	ROX	
	Results		Positive
			Negative
		Invalid	
TIME TO RESULT	Hands on time	1 minute	
	Walk away time	32 minutes	
STORAGE CONDITIONS	Temperature	0 – 25°C	
	Relative humidity	Up to 95% relative humidity (non-condensing)	
	Shelf life	12 months	
	Disposal	Biohazardous waste	
EXTERNAL QUALITY CONTROLS	Positive control	SARS-CoV-2 Isolate: USA-WA1/2020/ Human A-549 cells	
	Negative control	Human A-549 cells	
FUNCTIONAL SPECIFICATIONS	Detection method	Direct-to-PCR, 6 channel fluorescence detection	
	Temperature hold accuracy	± 0.15°C for hold times up to 1 hour	
	Temperature accuracy	± 0.25°C	
	Optics	AF350, FAM, HEX, ROX, CY50, AF750	
PERFORMANCE	Analytical sensitivity (LOD)	50 copies/rxn	
	Clinical sensitivity, overall	80.0% (95% CI: 64.4% - 91.0%)	
	Clinical specificity, overall	99.1% (95% CI: 94.9% - 100%)	
	Clinical sensitivity, utilising reference test Ct cut off of 35	96.9% (95% CI: 83.8% - 99.9%)	
	Clinical specificity, utilising reference test Ct cut off of 35	98.3% (95% CI: 93.9% - 99.8%)	
	Agreement, utilising reference test Ct cut off of 35	98.0%	
	Inclusivity	>99%	
	Cross-reactivity	0%	
	Interfering substances	No interference	
	Reproducibility	>99%	

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**For more information**

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