

QLoci™ SP16 Nucleic Acid Workstation



- Pre-sealed DNA/RNA extraction cartridges
- Compatible with user qPCR reagents
- Complementary to LifeOS Genomics QLoci™ mdPCR workflow

Automated Sample-to-Result Quantitative PCR Analysis

Efficient & Powerful

Combines DNA/RNA extraction and quantitative PCR analysis in an automated compact system.

Adaptable & Reliable

Open qPCR reagents enable quick expansion of existing and new qPCR assays.

Fast Turnaround Time

16 samples/batch in less than 2 hours.

Flexible & Cost effective

Each sample can be individually processed and divided into multiple qPCR reactions, saving reagent costs.

Automation of Familiar Workflow

streamlines laboratory operation and lowers testing cost



1. DNA/RNA Extraction

DNA/RNA extraction from your samples using pre-sealed cartridges containing magnetic beads and related reagents. 1 to 16 Samples can be processed in a batch.



2. Automated PCR setup

Automated PCR reaction setup with commercial or user PCR/qPCR reagents.

Prepared PCR reactions are individually capped and transferred to the qPCR module, minimizing cross-contamination risks.



3. Quantitative PCR Run

qPCR quantitation with 5-color channels. Total of 16 individual qPCR reactions can be analyzed in a run.



4. Data Analysis on Instrument

Data analysis provided by on-board computer with user-friendly software, with ethernet connectivity.

Contact Information

4F, No. 6, Dusing Rd., Hsinchu Science Park, Hsinchu City 30078, Taiwan,
TEL: +886-3-579-5050, FAX: +886-3-579-5581

Expanding Portfolio of Products for Your Needs

Ordering Information

Item Catalog No.

Instrument & Reagent Kits

All products under Instrument & Reagent Kits are for research use only. Not for use in diagnostics purposes.

QLoci™ SP16 Nucleic Acid Workstation: LF16800

includes one QLoci™ SP16 Nucleic Acid Workstation, licensed software QLoci™ SPSolutions™

QLoci™ SP Respiratory Virus DNA and RNA Extraction Kit LF16801

Kit for Respiratory Viral DNA and RNA extraction of 48 samples on QLoci™ SP16 Nucleic Acid workstation, including all required consumables.

QLoci™ SP SP Whole Blood Genomic DNA Extraction Kit LF16802

Kit for genomic DNA extraction of 48 samples on QLoci™ SP16 Nucleic Acid workstation, including all required



Specifications	QLoci™ SP16 Nucleic Acid Workstation
Throughput	Nucleic Acid Extraction: 1 - 16 sample / batch qPCR: 16 qPCR reactions / run
Pipette system	1 channel pipette Volume range: 10 - 200 µl / Precision: ≤ 5%
Sample Volume	Sample Volume: 200 µL; Elution Volume: 80-200 µL
Excitation source & Excitation / Emission Wavelengths	Excitation: Long-life high-power LEDs Ch.1 : 470nm±10nm / 520nm±10nm Ch 2 : 525nm±10nm / 570nm±10nm Ch 3 : 570nm±10nm / 620nm±10nm Ch 4 : 615nm±10nm / 680nm±10nm Ch 5 : 680nm±10nm / 710nm±10nm
Detector	High sensitivity photodiodes (PD)
Temperature Accuracy Temperature Uniformity Maximum Ramping Rate Maximum Cooling Rate	≤ ±0.5°C ≤ 1°C > 3.5°C > 3.0 °C
PCR reaction volume	10 ~ 100 µL in PCR tubes with individual capping
Operation Environment	Ambient Temperature: 10 - 32 °C; Relative Humidity: 10 - 75%
On-board Computer	11.5" touch screen; Windows 10
Power Requirement	110/220V, 50 - 60 Hz
Dimension / Weight	610x 670 x 660 mm / 76Kg

Legal Information

The QLoci™ System, in whole or by its components, and/or its use are covered by claim of intellectual properties owned by LifeOS Genomics Corporation. Purchase of the products includes a limited, non-transferable right as defined by intellectual property rights to use said products. It is the responsibility of the user to purchase additional intellectual property rights for commercial purposes, which may be acquired in the form of licensure from LifeOS Genomics Corporation. The QLoci™ System and its components are for research use only. No rights are granted for use in diagnostics purposes.

Contact Information

4F, No. 6, Dusing Rd., Hsinchu Science Park, Hsinchu City 30078, Taiwan,
TEL: +886-3-579-5050, FAX: +886-3-579-5581