

Complement Virus Detection Workflow with an Automated Liquid Handling System

Automated qPCR reaction set up for SARS-CoV-2 detection with the QIAGEN® artus® SARS-CoV-2 Prep&Amp UM Kit on the epMotion® 5075 liquid handler



Quantitative real time PCR is the gold standard method for COVID-19 testing across the globe. Streamlining reaction set up to simplify qPCR assay is crucial for reliable and high throughput screening of patient derived samples. The QIAGEN® artus® SARS-CoV-2 Prep&Amp UM Kit optimised on the epMotion 5075®* liquid handler is the perfect solution for SARS-CoV-2 detection workflow.

Features

- > Dispensing tools (1-channel and 8-channel) supporting volume ranges from 0.2 1000 uL and gripper function for labware transport
- > Optical sensor for detecting liquid, labware and tips (type and quantity)
- > Automatic exchange of all tools
- > Integrated thermal module for reliable temperature incubation
- > Intuitive epBlue software for programming supported by Multicon PC controller
- > Optional CleanCap with UV lamp and HEPA filter for decontamination
- > Integrated LED for visual feedback of the system status

Advantages

- > Enhance throughput: Process up to 96 samples for qPCR set up with no manual intervention
- > Ensure reproducibility: Calibrated dispensing tools with optimized pipetting accuracy evades manual errors
- Minimize contamination: Fully autoclavable dispensing tools and additional UV lamp and HEPA filter option guarantees sample/user safety
- > Improve productivity: Pre-optimised kit protocols with on-deck incubation facility spares time for scientific thinking
- > Maximize Flexibility: 1-channel and 8-channel dispensing tools supports working with various plate and tube formats

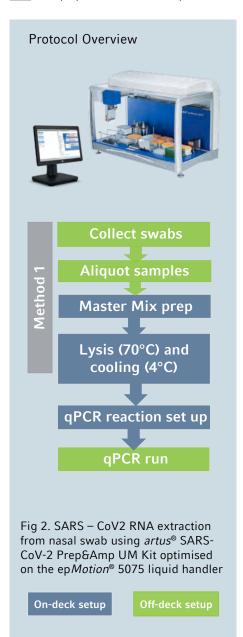


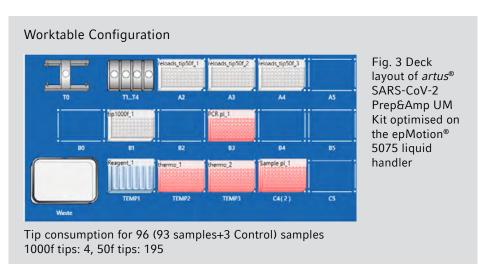
Workflow overview

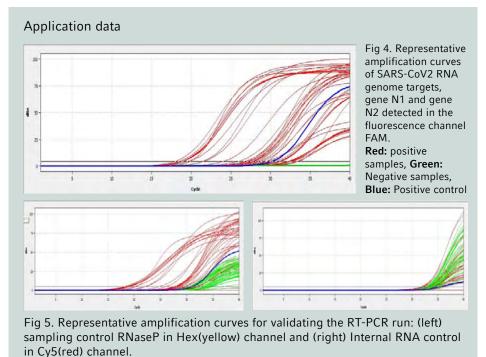


Fig 1. Schematic overview of the common Viral RNA based workflows

Steps performed on the epMotion







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