Rob^{m}

Automated 96/384 qPCR set up





Accuracy



Precision



Saves money



Saves time



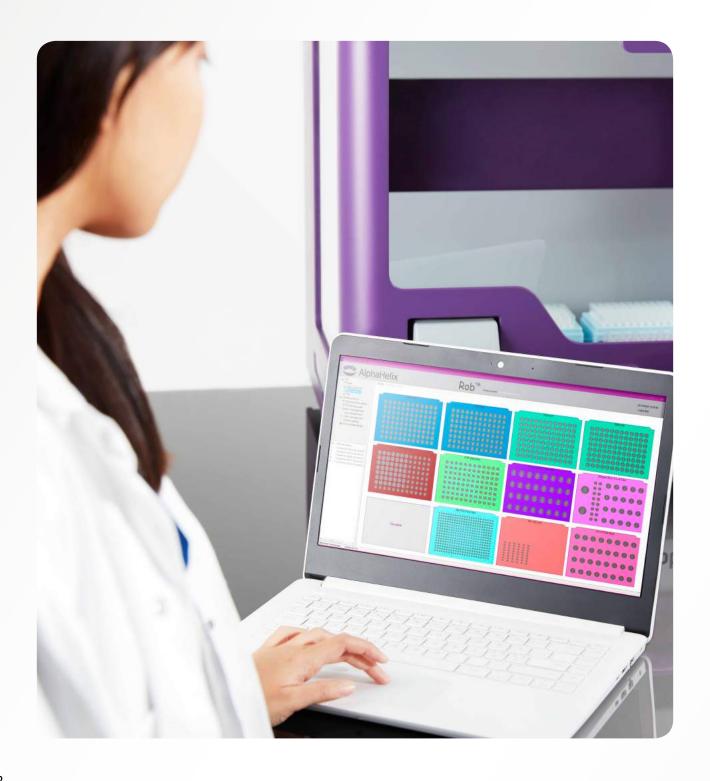
Easy to use





Designed for everyone in the lab

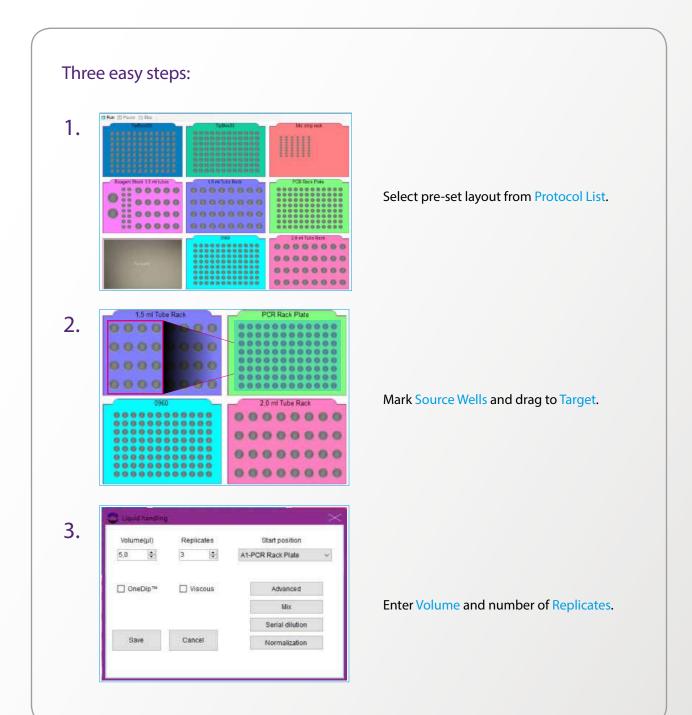
Intelligent and unique. Incredibly precise and easy to use. Rob™ offers smart software and exclusive OneDip™ technology. With Rob™, there's no extensive training required. Within 5 minutes, anyone can operate the software and create protocols. This is supported with accessible help menu in every window.





Liquid handling with intelligence

Rob™ utilizes virtual intelligence to simplify protocol set-up. The software takes care of everything. Rob™ predicts optimal conditions for dispense & aspiration speed, tips to use, and many more. This enables user to create protocol with the best precisions without any previous liquid handling knowledge.

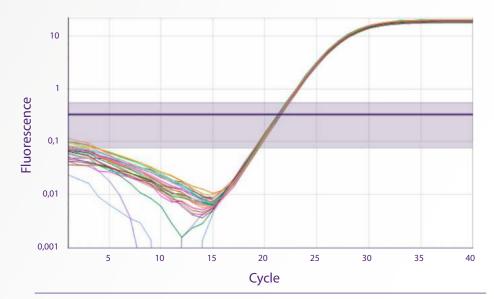






Unrivaled performance

Rob $^{\text{m}}$ is optimized for PCR/qPCR set-up from a very low volume template. The reproducibility data on 1 μ l dispense exceeds the reproducibility of 96/384-plate qPCR instruments.



Result:

Cq_{Average}: 21.35

Standard deviation (Cq): 0.08

 $Cq_{Max} - Cq_{Min}$: 0.30

Materials & methods: Primer is specific for mouse beta-actin. Single stranded DNA containing beta-actin amplicon sequence is used as template. Cycle condition were as follows: 2 min 95°C HotStart activation, then 40 cycles with 10 sec 95°C and 10 sec 60°C. Run time were 45 min with Mic qPCR cycler (Biomolecular System, Australia). The qPCR set-up were 18 μ l qPCRBio SyGreen Mix (PCRBiosystem, UK) dispensed using multi-dispense followed by 1 μ l template using single dispense from one tube. Run time were 8 min 14 sec.



Saves money

First choice for 384-plate set up

The propriety of OneDip[™] technology allows Rob[™] to make a PCR/ qPCR set up with three sample replicates in just 45 minutes. This makes Rob[™] the first choice for 384-well PCR/qPCR set up for medium through-put laboratories. Cost saving with OneDip[™] is substantial. Usage of tips is reduced by 65% and dicard of reagents is less.

OneDip $^{\text{\tiny{M}}}$ is limited to sample volume of 2 μ l and 5 μ l for reagent.





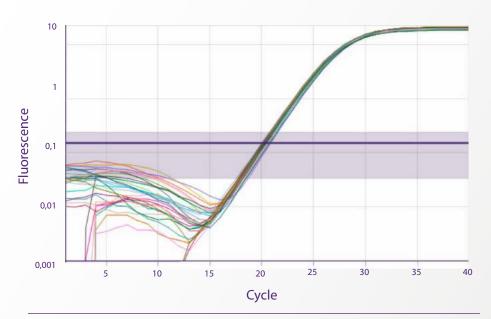
Saves money



Saves time

OneDip[™] performance

Rob[™] has OneDip[™] technology, which enable multi-dispensing of liquid from 2 μ l with proper precision. The amplification curve below showed the detection of 2 μ l template prepared using OneDip[™] mode. The data is analysed by taking an average of triplicates.



Result:

Based on average Cq value of triplicate

Cq_{Average}: 21.25

Standard deviation (Cq): 0.075

Cq_{Max} - Cq_{Min}: 0.23

Based on single template

Cq_{Average}: 21.25

Standard deviation (Cq): 0.19

 $Cq_{Max} - Cq_{Min}: 0.82$

Materials & methods: follow the same parameter with 1 µl experiment (left).

Reliable result

After you set up a protocol, you will get a Pre-run Report that informs you the volume required for reagents and samples. During the run, Rob™ verifies the reagents position and volume assuring no pipetting mistake will occur.

Liquid level detection (LLD) and tip detection mechanism ensure reliable aspiration and dispensing in every run. Since Rob™ utilizes pressure-based LLD, the use of expensive conductive tips become unnecessary.

Post-run Report is accessible in the software, anytime you need it.

Rob[™] communicates with other systems

Rob[™] is designed to communicate with all instruments for both upstream and downstream applications. Sample data can either be entered manually, by using barcode scanner, or imported as csv file. On every run, your protocol will be assigned a unique ID which is required quality assurance. To keep track of liquid handling, you can export the data from Rob[™] to PCR/qPCR instrument or back to LIMS.





Easy to use

Software features

qPCR set-up guide: this will guide you to design the protocol of your qPCR experiment step-by-step. It optimizes the use of reagents, samples, controls and standards. The flexibility to use several Master Mixes in one run is also an advantage. Parameters in the protocol can be saved and modified easily, anytime.

Serial dilution: compare to manual pipetting, automation will maximize accuracy. Information that you need to enter are dilution ratio, number of dilution steps, and position of standard and diluent. This makes Rob^{m} a perfect tool for the job.

Sample normalization: you can normalize sample concentration with Rob^{TM} . Just input information of sample volume and the concentration measured by other instrument. Rob^{TM} will calculate the required diluent volume automatically and pipet them accurately.



Product specifications

Liquid handling:

Volume range: $0.5 - 200 \mu l$ Precision: CV < 2% for $2 \mu l$

Set-up speed:

96 plate, three replicates, ready-made mix: < 28 min Using OneDip: 13 – 14 min

Liquid level detection:

Detection limit: Detects as low 3 μ l in a 200 μ l PCR tube Detection precision: \pm 0.3 μ l in a PCR tube with 20 μ l volume after tip change.

Disposables and blocks:

50 μ l filter tips Cat no: 67-0050 50 μ l tips Cat no: 67-0050NF

200 µl filter tips Cat no: 67-0250

200 µl tips Cat no: 67-0250NF

Reagent block Cat no: 66-5002 Block for 32 tubes, 1.5/2.0 ml Cat no: 66-3215 Block for 96 tubes or plate, 0.2 ml Cat no: 66-0096

Block for 384 PCR plate Cat no: 66-0384

Block for Rotor-Gene 0.1 ml Cat no: 66-0072

Ordering information Rob[™] system (65-2001) including:

- Instrument with cables
- USB with software and user manual
- Three aluminum blocks for Cat no: 66-3215, -5002, -0096
- One package (10x96) each of 50 and 200 µl filtered pipette tips





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