

# THE UBIQUITOME LIBERTY16 PRO



## The best real time PCR user experience just got better

We took the most requested feature sets and implemented them for next level performance in the Liberty16 Pro:

- ▶ Enhanced detection sensitivity
- ▶ In well inhibitor and PCR reaction failure detection
- ▶ Faster ramp rates

### Refined for you

With the already great app driven user experience, the Liberty16 Pro has been further enhanced with four different user modes:

1. User dynamic
2. Collaboration
3. On the go
4. Ready for action

Customer favorite features such as the internal lithium battery for those unpredictable testing situations, the easy open and close, the app driven control and data review interface, automated Cq calling and of course the beloved event signaling Ubiquitome butterfly make an encore appearance.

### Saving you time - and money

As anyone with a need to get their real time PCR result in a hurry will tell you, time can really make a difference which is why we've doubled the ramp rate for faster run times. With the ability to multiplex, we've also doubled the throughput for those situations where you just have to know answers fast and that your run has gone to plan. Better still, reagent costs, still by far the biggest cost for regular real time PCR users, are halved when running protocols which call for an internal control.

Finally, the Liberty16 Pro remains an open system for the reagents and consumables vendors you trust and can afford.

### Great performance just got better

Building on the excellent performance of the Liberty16, the Liberty16 Pro offers even better sensitivity, faster and with the confidence of in-well internal control. As of December 14, 2022, the Liberty16 Pro also achieved FDA emergency use authorization status for SARS-CoV-2 detection. To further evaluate the performance, a compatibility study was conducted and compared to a market leading traditional lab-based competitor instrument, namely Competitor Q (Figure 2).

#### References

- 1 U.S. Food and Drug Administration. (2022). SalivaDirect - EUA Summary - Updated December 14, 2022. Available at: <https://www.fda.gov/media/141192/download>



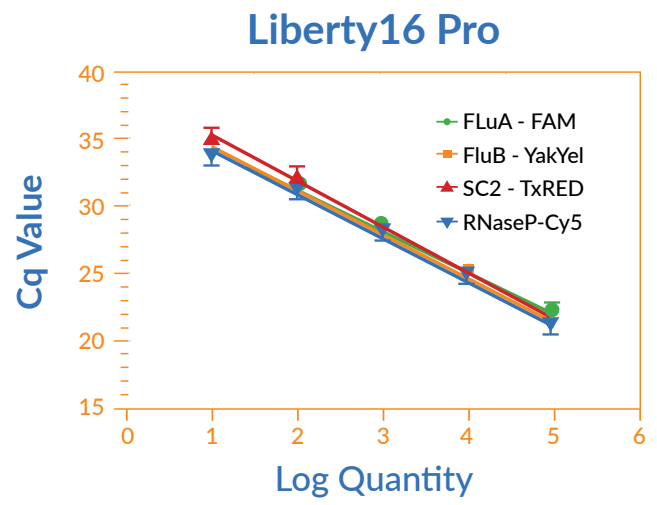
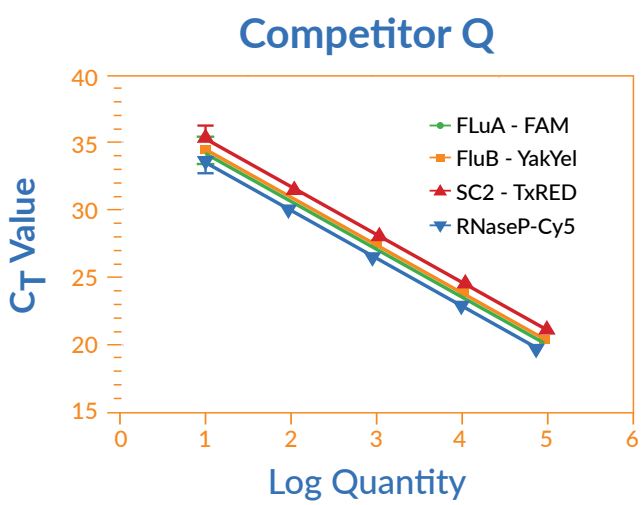
Figure 1: iOS app featuring a run – connects wirelessly to Liberty16 Pro via Bluetooth®.

SPECIFICATIONS	
Block Format	16 wells
Thermal system	Peltier-based system
Consumables	Industry-standard 8 strip PCR tube and flat caps
Sample volume	10 µL to 40 µL
Average ramp rate	4.5°C/second
Ambient operation	10°C - 40°C
Application	Multiplex qPCR Assay(s)
Data collection	Data collected for all wells
Battery	Internal – rechargeable lithium-ion
Outside dimensions	Length closed: 21.2 cm Width: 11 cm Height: 13.3 cm
Weight	2.5 kg
Charger	Included (input AC:100-240V)
Battery life	Up to 3 hours

OPTICAL			
Channel	Absorbption (nm)	Emission (nm)	Compatible Dye(s)
Green	450-500	510-535	FAM
Yellow	450-500	550-580	Yakima Yellow, VIC
Red	565-605	615-645	JUN, Texas RED
Deep Red	565-605	675-720	Cy5, ATT0647



Figure 2: The compatibility study between Liberty16 Pro and competitor Q. A 5-log series dilution from 10<sup>5</sup> to 10 copies/µL was tested using optimized CDC Influenza SARS-CoV-2 Multiplex Assay. As a result, both Liberty16 Pro and Competitor Q showed 100% detection rate for all of these four targets down to ~10 copies/µL. The results indicate that both machines performed equivalently in qualitative assays to detect multiple targets.



**FOR RESEARCH USE ONLY**

Only for diagnostic use for qualitative detection of nucleic acid from SARS-CoV-2 in saliva in select laboratories per the EUA.

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