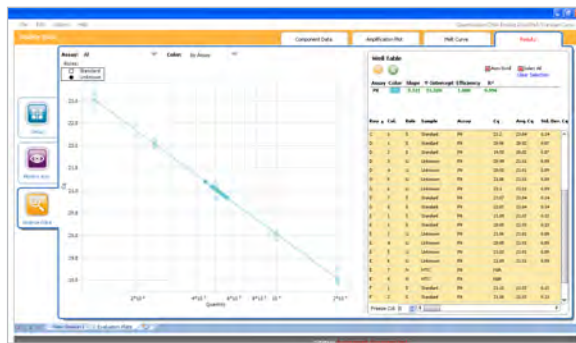


Figure 5: Highly Accurate qPCR Results



Results obtained from a standard qPCR run using the Eco evaluation plate. The experiment was performed in a 20- μ l final reaction volume with SYBR Green Master Mix. PCR efficiency is 100% with $R^2 = 0.996$. The 24 unknown samples were quantified with a Standard Deviation of $C_q = 0.09$. These measurements indicate great data quality.

Accessible qPCR

With the Eco Real-Time PCR system, highly accurate qPCR results can now be easily obtained on any budget. Combining amazing temperature control, four-color multiplex capabilities, an optimized optical system, and intuitive software in a small-footprint device, the affordable Eco system is available to all researchers. Now everyone can own their own qPCR instrument; ready for use when they are, leading to more productive and successful research.

Learn more

For more information about the Eco Real-Time PCR system, visit www.illumina.com/ecoqpcr.

Eco Real-Time PCR System Information

Eco System and Accessories

Product	Quantity	Catalog No.
Eco Real-Time PCR System	1 unit	EC-100-1001
Eco loading dock	1 unit	EC-200-1001
Eco plates	40 plates	EC-200-1002
Eco adhesive seals	40 seals	EC-200-1003
Eco evaluation plate	1 plate	EC-200-1004

Eco System Specifications

Catalog No. EC-100-1001

Instrument

Thermal system: Proprietary hollow silver block with Peltier-based system

Block format: 48-well block

Consumables: 48-well custom plates and optical adhesive seals

Sample volumes: Validated for 5–20 μ l

Average ramp rate: 5.5°C/sec

Temperature range: 35–100°C

Temperature uniformity: $\pm 0.1^\circ\text{C}$

Optical system: Dual LED excitation (452–486 nm and 542–582 nm), four emission filters (505–545 nm, 562–596 nm, 604–644 nm, and 665–705 nm) and CCD camera

Calibrated dyes at shipment: SYBR Green dye, FAM, HEX, ROX, Cy5. Additional dyes within the wavelength range compatible with Eco filters are supported with no additional calibration required for implementation

Passive reference dyes: Use of ROX is supported, but optional

Data collection: Data collected in all four filters for all wells regardless of plate setup; plate setup for data analysis can be altered after run completion

Melt curve analysis supports continuous data acquisition in a single filter to provide increased data point collection and reduced run times

Real-Time PCR run time (40 cycles): Less than 40 minutes

Electrical

Voltage: 120–240 VAC = 10%

Frequency: 50/60 Hz = 1%

Nominal current draw: 8A

Peak power: 500W; typical power is 180W

Software

Multiple-license Eco system software is included at no additional cost; virtually all chemistries supported; applications include Absolute Quantification, Relative Quantification, Allelic Discrimination, High Resolution Melt curve analysis (HRM)

Dimensions

Closed WxDxH: 13.6 in \times 12.2 in \times 12.6 in

Open WxDxH: 13.6 in \times 12.2 in \times 14.5 in

Weight: 13.6 Kg (30 lbs)

Performance

Sensitivity: 1 copy

Dynamic range: > 9 logs linear range

Precision: Discriminates 5,000 and 10,000 template copies with 99% confidence

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