



Real-time fluorescent quantitative PCR system BTK-96

Faster more efficient more sensitive

Main Application:

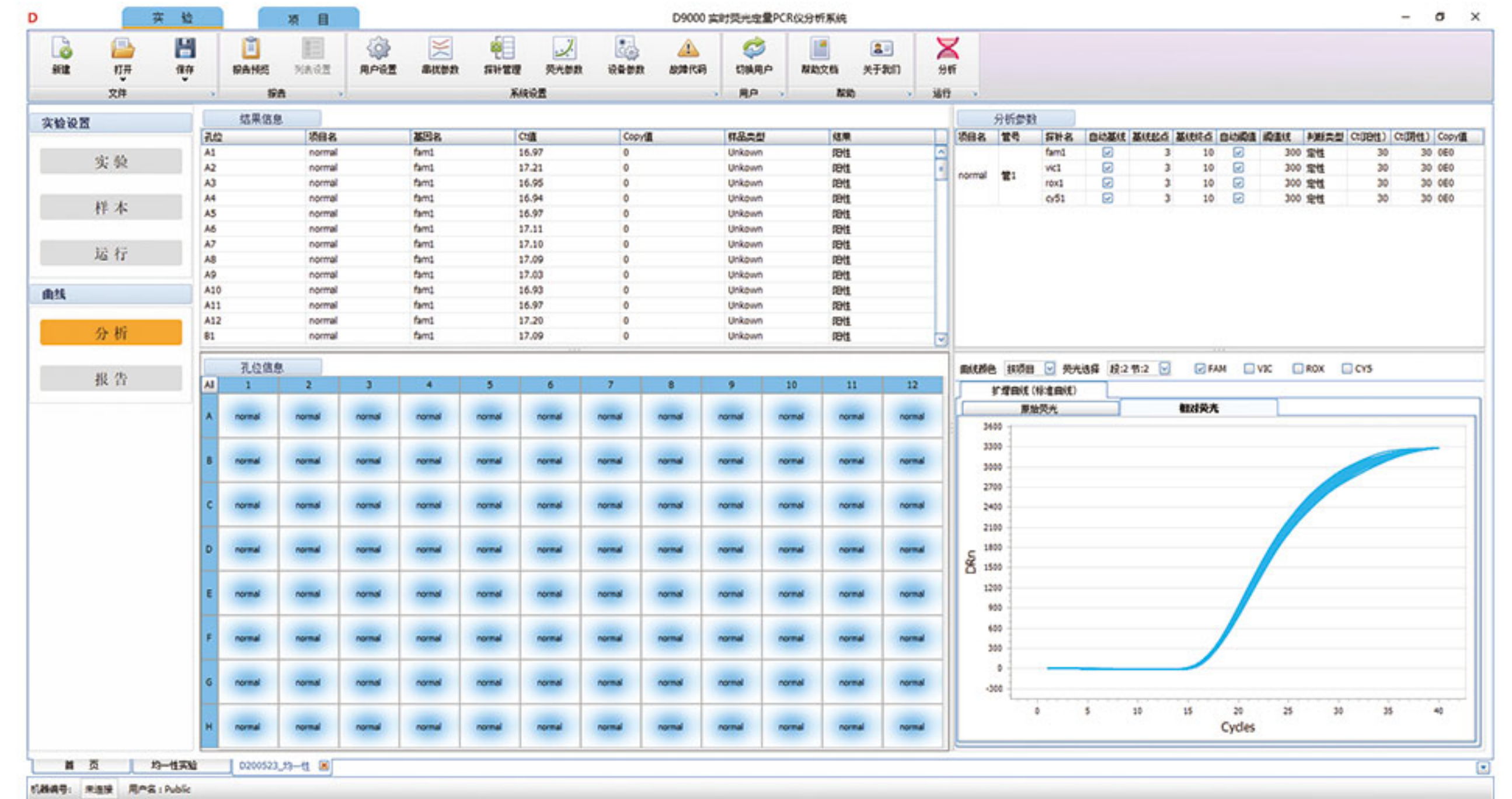
- Epidemic Public Health Monitoring
- Basic scientific research/pathogen detection
- Meat products Adulteration
- Genetically modified testing/food safety testing
- Drug development and rational drugs usage
- Gene expression/water monitoring

The whole machine is with small size, light weight, and exquisite appearance design. It is connected to a windows computer and an optional All-in-One tablet. 96×0.2ml reaction module, compatible with 8-Strip, single and 96 PCR tubes. High-quality Peltier cooling plate, combined with German high-end temperature sensor and electrical resistance heating compensation temperature control. Fast temperature rate of heating 4°C and cooling 3°C which greatly shortens the testing time. Breathing light indicates each step status in the operation process. Intuitive, elegant and simple software design makes it easy to start detection experiment.

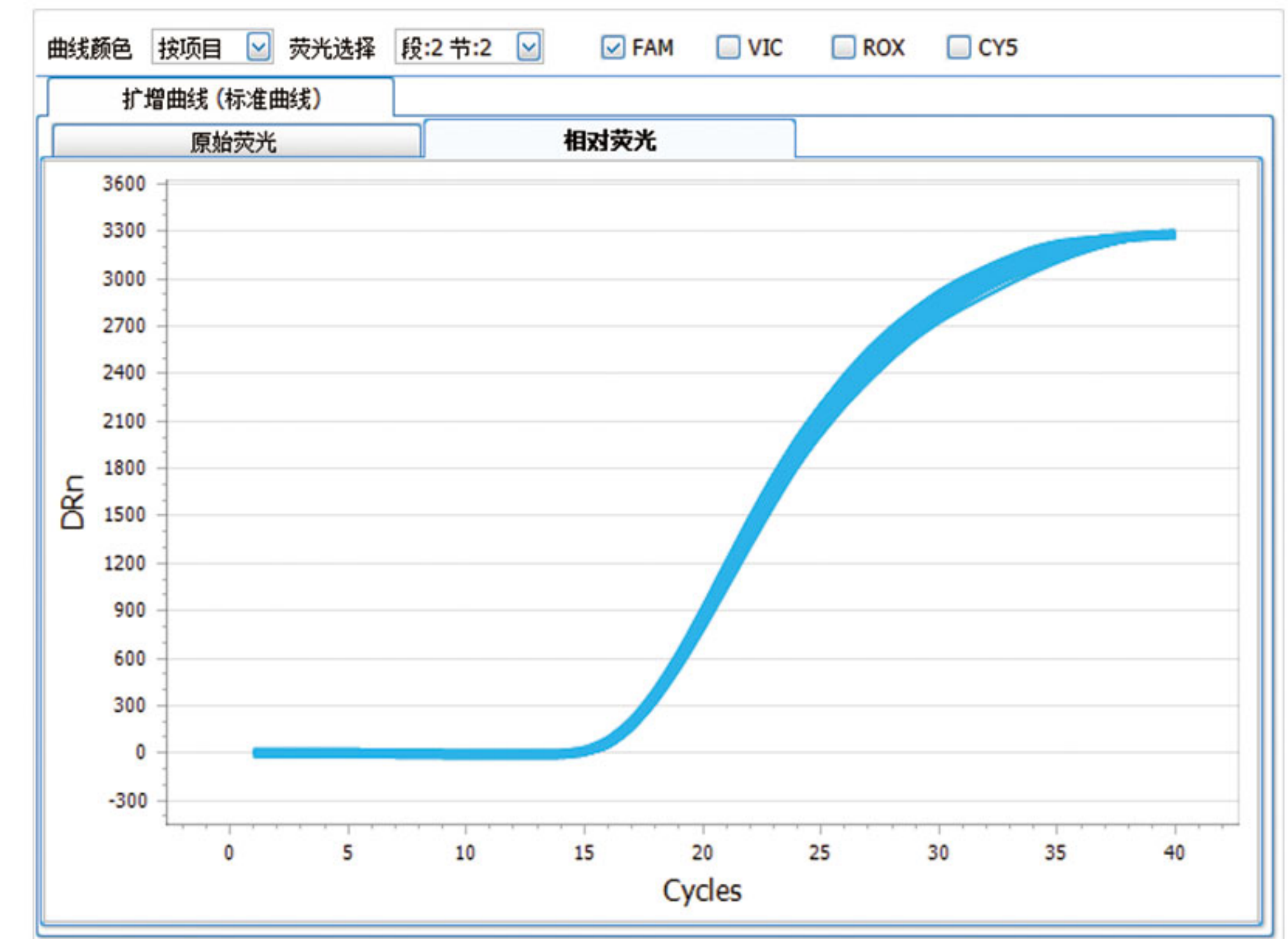
无锡百泰克生物技术有限公司

BioTeke Corporation(wuxi) Co., Ltd

- 1 Light source:
Four long-life LED lights with different filters,
It can specifically and efficiently activate fluorescent molecules with different activated wavelength bands.
- 2 Detector:
Four photodiodes with different filters,
high-sensitivity sensor that specifically detects fluorescent molecules in different activation bands,
Each well can detect 4 target factors at the same time.
- 3 Propagation medium activation and detection:
High temperature resistance glass core fiber

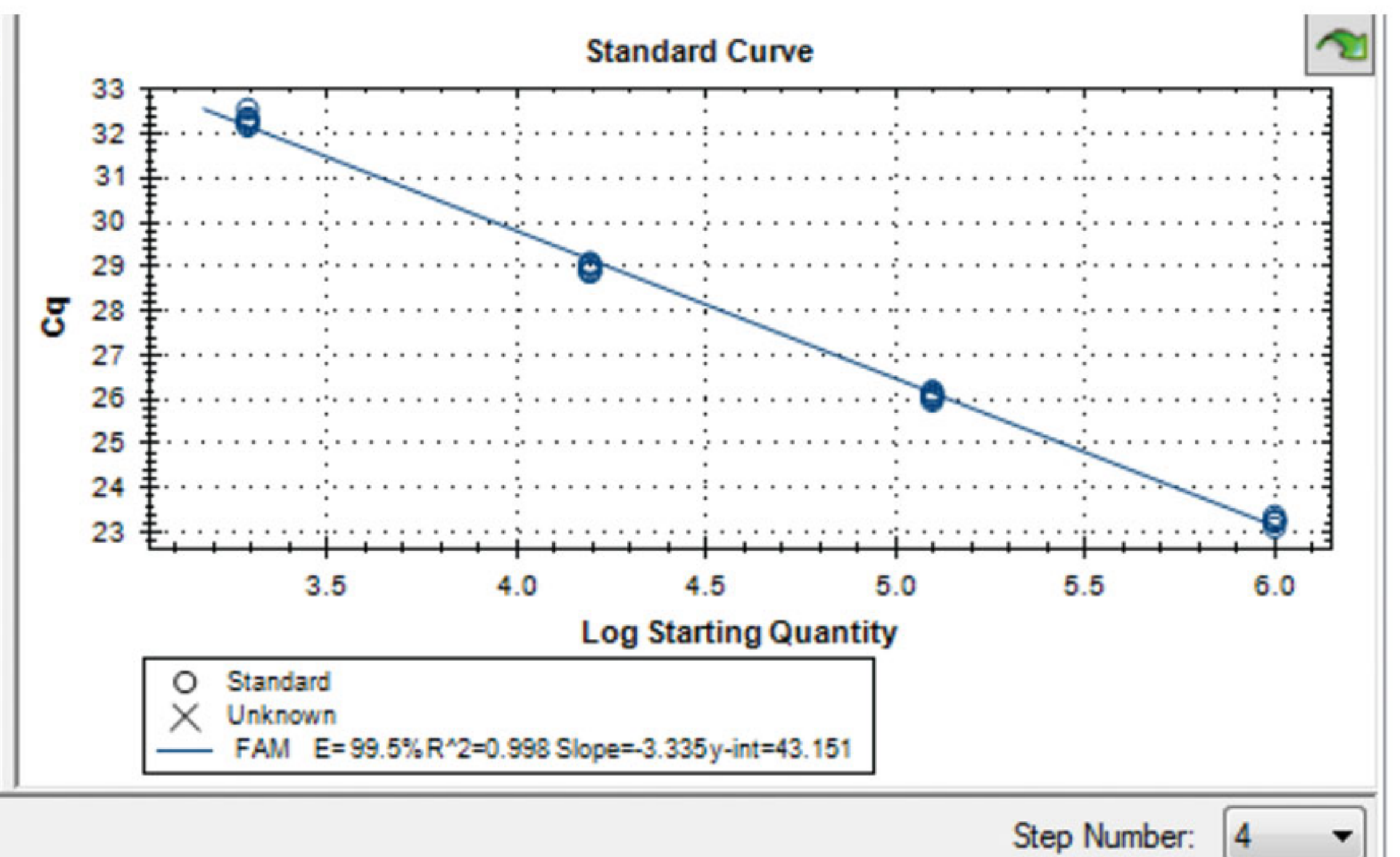
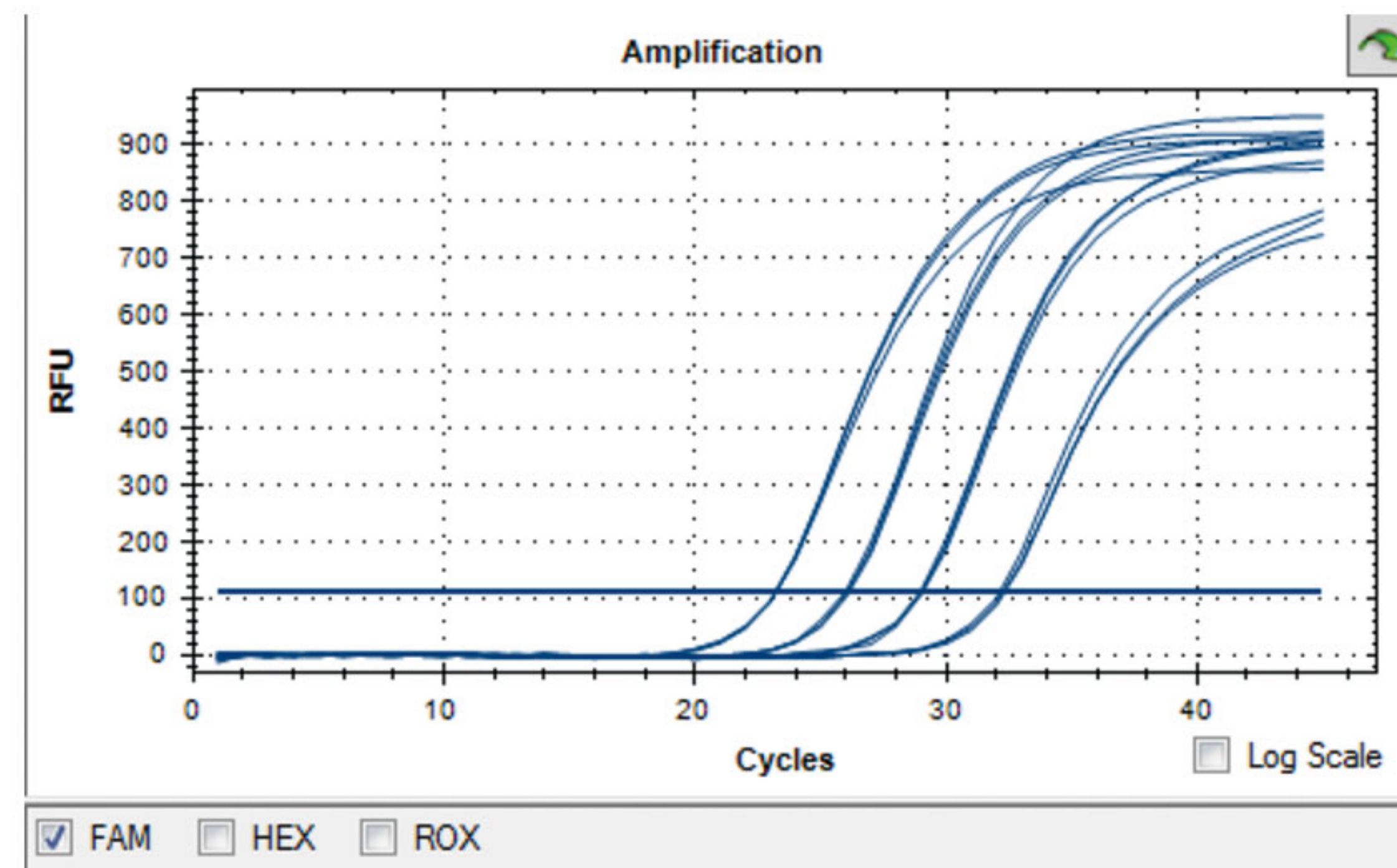


Uniformity experiment



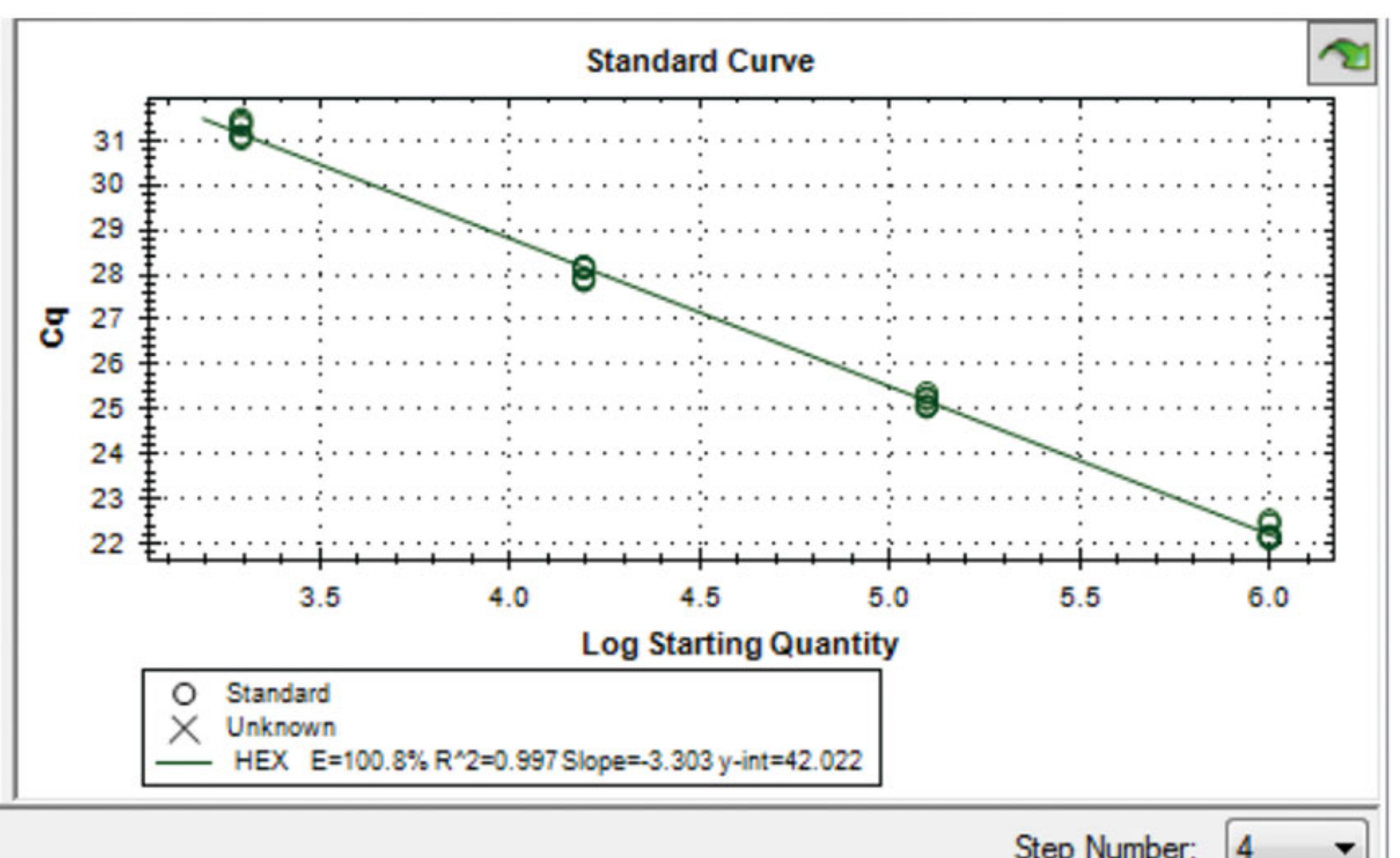
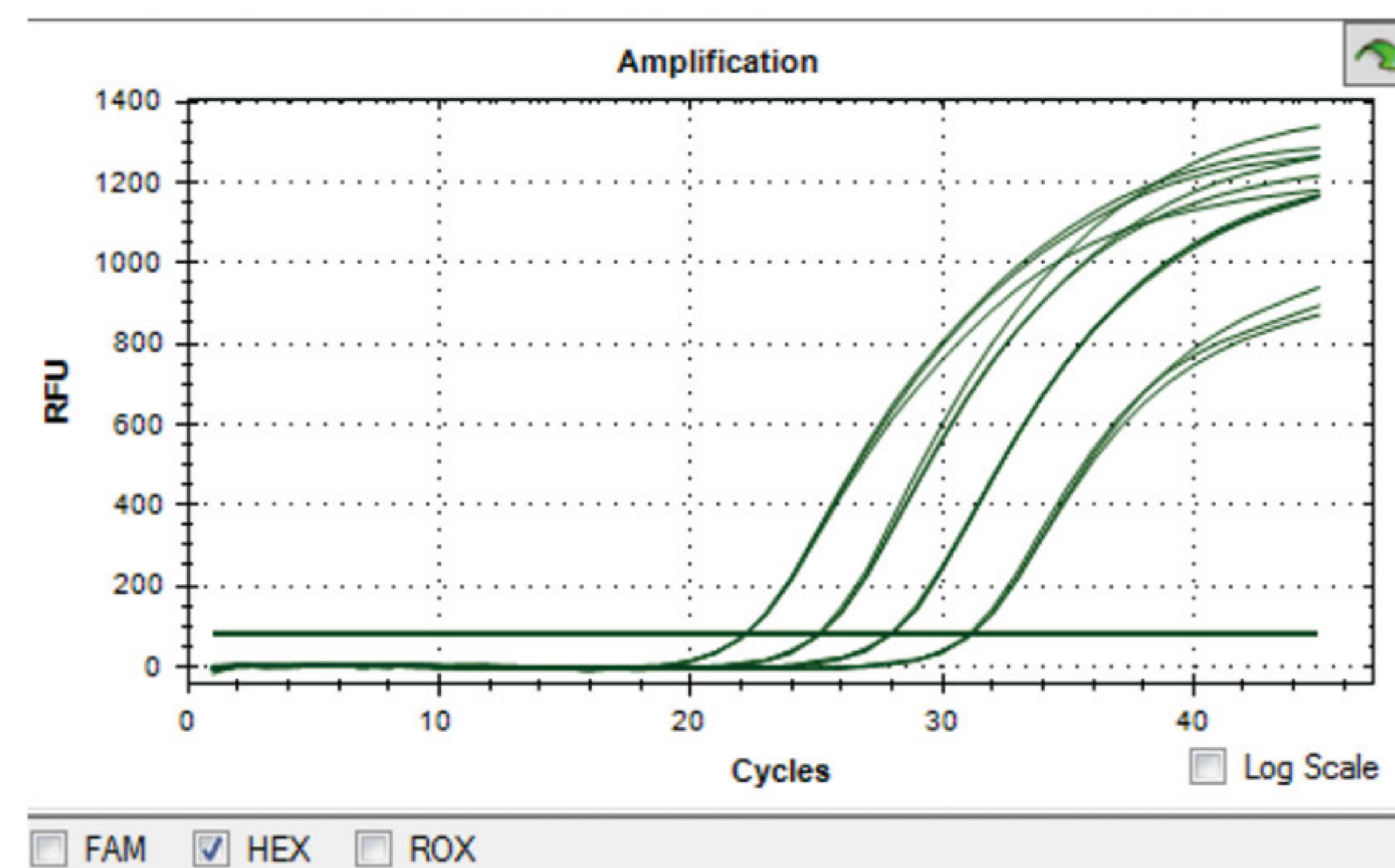
Amplification efficiency

	CT	Dilution factor
FAM	23.25	8 ⁰
FAM	23.25	8 ⁰
FAM	23.24	8 ⁰
FAM	26.16	8 ¹
FAM	26.10	8 ¹
FAM	26.03	8 ¹
FAM	29.05	8 ²
FAM	29.02	8 ²
FAM	29.09	8 ²
FAM	32.36	8 ³
FAM	32.29	8 ³
FAM	32.17	8 ³



ORF1ab

	CT	Dilution factor
HEX	22.09	8 ⁰
HEX	22.13	8 ⁰
HEX	22.12	8 ⁰
HEX	25.07	8 ¹
HEX	25.05	8 ¹
HEX	25.03	8 ¹
HEX	27.90	8 ²
HEX	27.85	8 ²
HEX	27.84	8 ²
HEX	31.09	8 ³
HEX	31.09	8 ³
HEX	31.02	8 ³

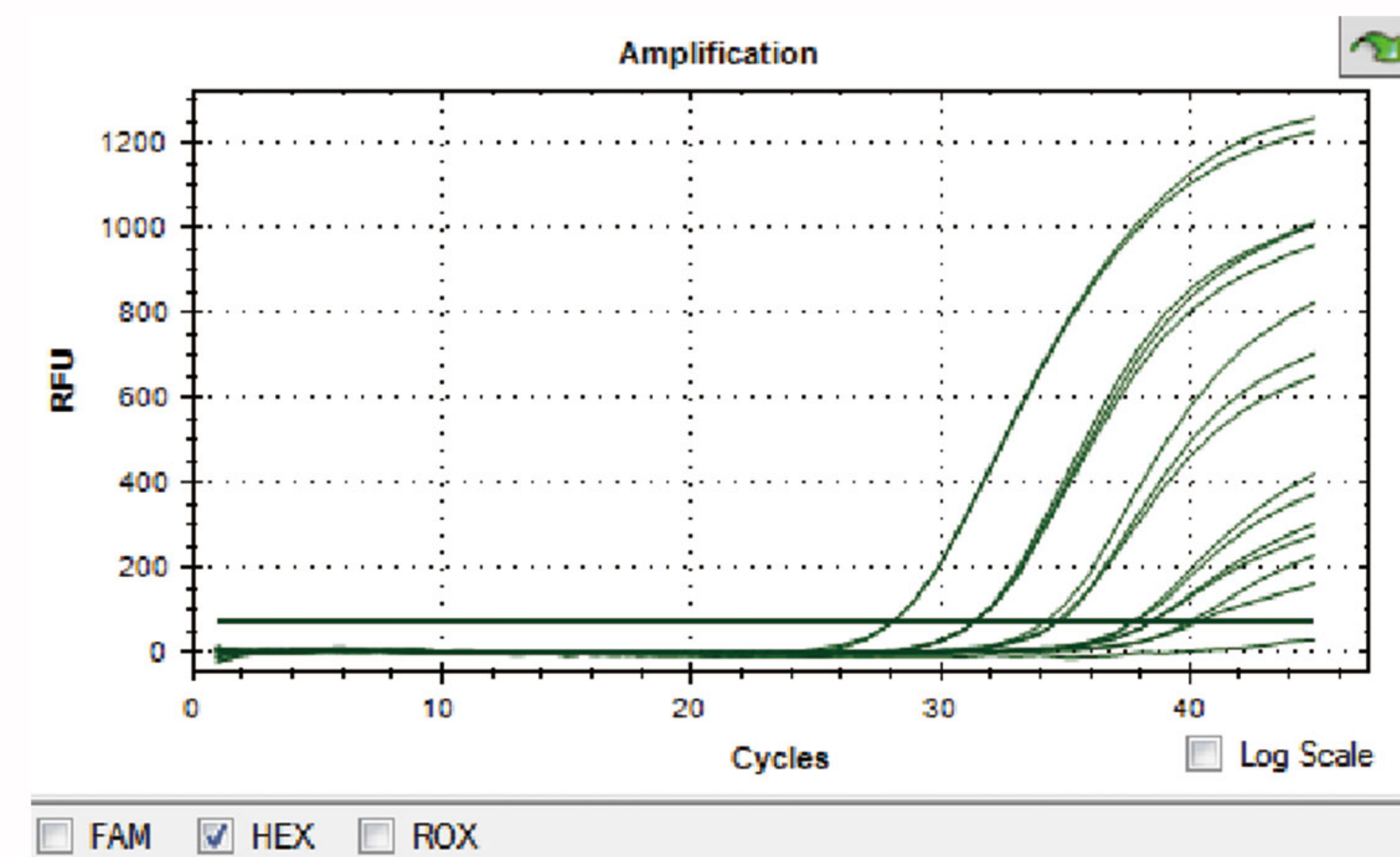
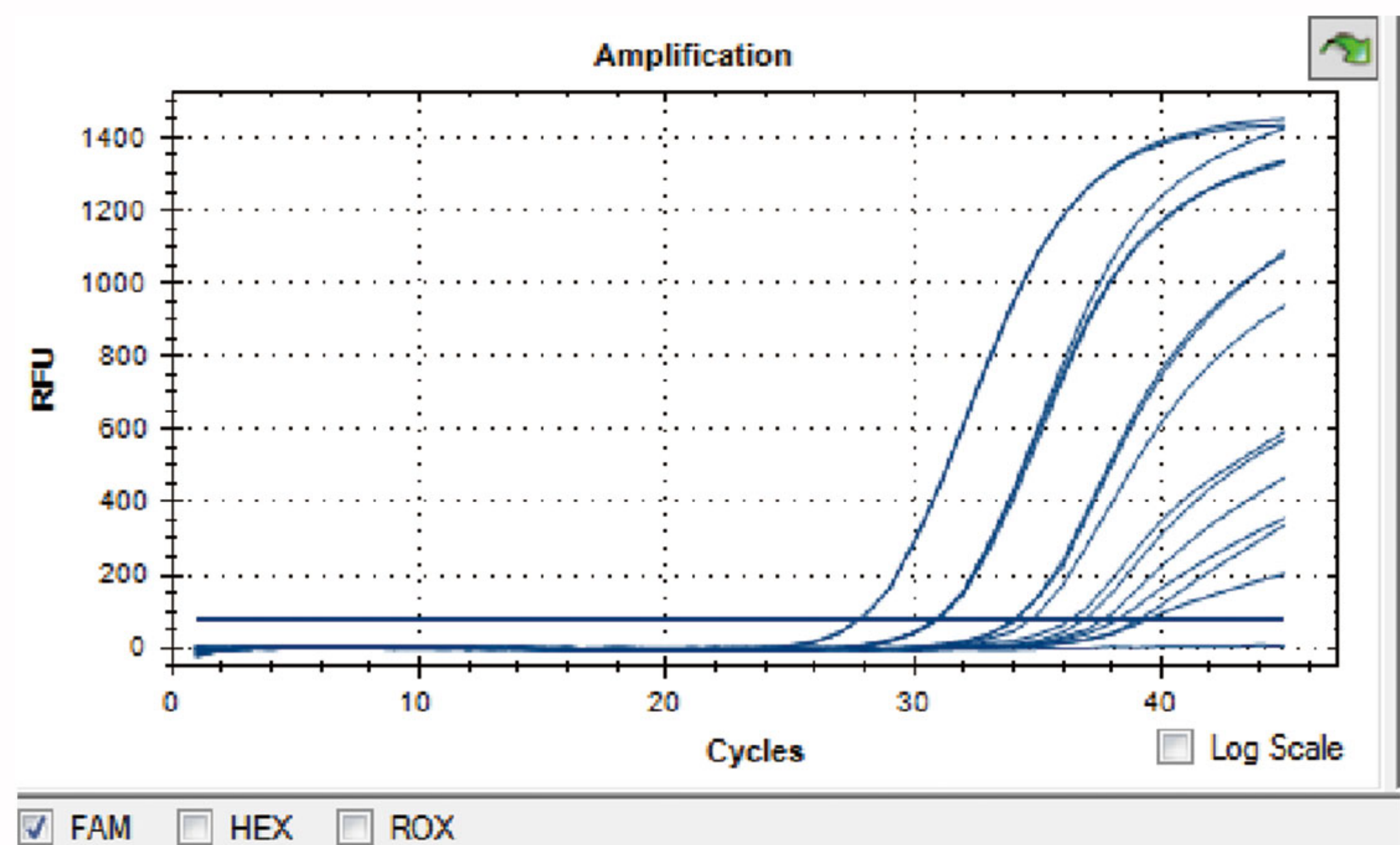


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Sensitivity

			CT	copies/5ul
C02	FAM	Std-1	27.79	3445
C03	FAM	Std-1	27.78	3445
C04	FAM	Std-1	27.69	3445
C05	FAM	Std-2	30.97	344.5
C06	FAM	Std-2	30.77	344.5
C07	FAM	Std-2	30.88	344.5
D02	FAM	Std-3	34.67	34.45
D03	FAM	Std-3	34.02	34.45
D04	FAM	Std-3	34.1	34.45
D05	FAM	Std-4	36.85	3.445
D06	FAM	Std-4	36.28	3.445
D07	FAM	Std-4	38.17	3.445
E02	FAM	Std-5	37.59	1.7225
E03	FAM	Std-5	39.05	1.7225
E04	FAM	Std-5	39.36	1.7225
E06	FAM	Neg Ctrl		

			CT	copies/5ul
C02	HEX	Std-1	28.09	6800
C03	HEX	Std-1	28.08	6800
C04	HEX	Std-1	28.12	6800
C05	HEX	Std-2	31.38	680
C06	HEX	Std-2	31.34	680
C07	HEX	Std-2	31.31	680
D02	HEX	Std-3	34.75	68
D03	HEX	Std-3	34.19	68
D04	HEX	Std-3	34.63	68
D05	HEX	Std-4	38.43	6.8
D06	HEX	Std-4	38.48	6.8
D07	HEX	Std-4	37.71	6.8
E02	HEX	Std-5	40.34	3.4
E03	HEX	Std-5	39.98	3.4
E04	HEX	Std-5	37.77	3.4
E06	HEX	Neg Ctrl		



Product Name	Real-time fluorescent quantitative PCR system
Dimensions	410*320*196 mm
Weight	11Kg
Power Supply	220V
Communication Interface	USB
Operation Temperature	18~35°C
Operation Humidity	0%~85%
Transportation and storage temperature	-20~55°C
Sample Capacity	96 hole *0.2ml
Sample Volume	20~120ul
Consumables	0.2ml Single-tube、8×0.2ml Calandria
Temperature control range	4~99°C
Temperature control accuracy	±0.1°C
Average heating rate	2.5 °C/s
Average cooling rate	2 °C/s

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