



LuminUltra's GeneCount™ qPCR Q-48

LuminUltra's GeneCount™ Quantitative Polymerase Chain Reaction (qPCR) Q-48 device delivers high performance in a 48-well fluorescent quantitative PCR detection system, enabling real-time detection of amplified DNA.

GeneCount™ Q-48 workflow was developed specifically for laboratories so they can extend this competitive offering to their clients, or bring costly, outsourced qPCR testing, in-house. DNA samples will be preserved, purified and extracted for rapid analysis using the robust 48-well fluorescent quantitative PCR detection system, all in approximately 2 hours.

Key Benefits

- Novel and human-orientated running interface for smooth operation.
- Advanced thermoelectric technology ensures fast and steady heating and cooling of the ultra-fast heat cycling system.
- It uses maintenance-free long-life LED excitation light source.
- Precise optical path system and ultra-sensitive PMT system provide the most accurate and sensitive fluorescent detection.
- Four fluorescent channels provide multiplexing capabilities and support for intercalating dyes, hydrolysis and FRET probes
- Equipped with ultra-low-light sensitive CMOS-based fluorescent imager, delivering high performance and flexible imaging capabilities
- Rapid results in approximately 2.5 hours (including purifying DNA)
- Optimized qPCR workflow designed for immediate use
- qPCR complements 2nd Generation ATP testing by allowing for specific, target microbe quantification after rapid, total biomass quantification
- qPCR reagent/assay panels pre-developed for targets of industrial importance'

Key Features

Specification/model	Q-48
Sample capacity	48×0.2ml (suitable for single PCR tubes, and 8-strip PCR tubes)
Fluorescent Channels	4
Channel 1	FAM/SYBR
Channel 2	VIC/HEX
Channel 3	ROX
Channel 4	CY5
Temperature range of block working	4~105°C (Minimum division :0.1°C)
Heating/cooling rate	4.0°C/s (max)
Temperature fluctuation	≤±0.1°C (full range), (55°C typical value ≤±0.1°C)
Temperature accuracy	≤±0.2°C (full range), (55°C typical value ≤±0.1°C)
Temperature uniformity	≤±0.4°C (full range), (55°C typical value ≤±0.3°C)
Temperature range of hot lid working	70~110°C (adjustable, default 105°C)
Repeatability of fluorescent intensity detection	5%
Running mode	Continuous running
Operation system	Windows 10
Power supply	100-240V~ 50/60Hz 600W
Dimensions	384mm × 353mm × 348mm
Weight	12kg

***All our Q-48 devices are CE Certified*

Ask about our GeneCount™ Q-48 turn-key package, which includes:

- the GeneCount™ Q-48 device
- Sample preservation kits
- DNA purification kits
- qPCR reagent/assay panels, for microbial induced corrosion (MIC), water quality and more
- Training and ongoing support from DNA and Applications Experts



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LUMINULTRA®
microbial monitoring