



TORONTECH

REAL-TIME PCR SYSTEM (QPCR) - QUANTITATIVE THERMAL CYCLER TT- Q480



Real-Time PCR System (qPCR) – Quantitative Thermal Cycler TT-Q480 combines a 48-well design with a 4-channel configuration, offering unmatched speed and precision. Its cutting-edge optical fiber detection system ensures faster imaging and reduces cycling time, optimizing workflows for a variety of applications.

APPLICATIONS

1. Nucleic acid quantification
2. Gene expression analysis
3. Genotyping
4. Agri-food safety testing
5. Veterinary diagnostics

FEATURES

Why Choose TT-Q480?

1. **Medium Throughput:** Ideal for labs needing efficient sample processing.
2. **High Sensitivity:** Delivers accurate and reliable data.
3. **Fast Results:** Accelerated thermal cycling for reduced testing time.
4. **Advanced Optics:** Supports multiple fluorescent channels for versatile assays.
5. **Precision Control:** Ensures consistent temperature accuracy.
6. **Cost-Efficient:** Designed for affordability without compromising performance.
7. **Intuitive Software:** Streamlines operation with user-friendly features.

- 8. **Flexible Analysis:** Offers multiple data analysis modes to meet diverse needs.
- 9. **Broad Versatility:** Suitable for both research and applied testing.
- 10. **Research Support:** Enhances collaboration with innovative tools.
- 11. **Responsive Support:** Backed by dedicated customer service.

The TT-Q480 redefines efficiency and accuracy in qPCR systems, making it the perfect choice for laboratories seeking dependable results across a wide range of applications.

TECHNICAL SPECIFICATIONS

Model	TT-Q480
Product Description	48-well Real-Time PCR instrument with 4 dye channel filters
Sample Capacity	48-well, 0.2mL block
Compatible Plates/Tubes	8-well strip tubes, single tube
Reaction Volume	20-120 µL
Excitation Source	LED
Excitation Range	475-620 nm
Detection Method	Photodiodes
Detection Range	515-670 nm
Detection Channels	4
Temperature Range	4-100°C
Average Heating/Cooling Rate	3.0°C/sec / 2.0°C/sec
Maximum Heating/Cooling Rate	3.5°C/sec / 3.0°C/sec

Temperature Uniformity	±0.25°C
Temperature Accuracy	±0.15°C
Detection Sensitivity	1 copy
Sensitivity	Detect differences as small as 1.5-fold in target quantities in singleplex reactions
Dynamic Range	10 logs of linear dynamic range
Footprint (W x D x H)	46.6 x 31.0 x 27.3 cm
Weight	17.5 kg



TORONTECH

Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com



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