

Document title: QX600 Droplet Digital PCR System – Bio-Rad

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QX600 Droplet Digital PCR System

The QX600™ Droplet Digital™ PCR System enables advanced six-color multiplexing, allowing clear discrimination of multiple targets with assays that are cross-compatible with the QX200™ Droplet Digital PCR System. The QX600 System is designed for researchers who need to quantify multiple targets with high accuracy, reproducibility, and sensitivity.

[Read More](#)

Ordering Information

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Overview

The QX600 Droplet Digital PCR System (ddPCR™) offers advanced six-color multiplexing and absolute quantification of nucleic acid, while delivering the best-in-class performance you have come to expect from Bio-Rad's ddPCR systems.

Benefits of the QX600 Droplet Digital PCR System

The QX600 Droplet Reader offers users:

- Sensitive multiplexing**
 - Six-color detection capability (FAM, HEX, Cy5, Cy5.5, ROX, and ATTO 590)
 - Quantification of up to 12 targets in a single well
 - Absolute quantification with 0.1% or better sensitivity
 - Sensitive and precise gene expression multiplexing
- Accurate and reproducible results**
 - Confidence in your results bolstered by a system qualified by standards from National Measurement Institute (NMI), Australia
 - Sets the standard for reproducibility as demonstrated in numerous studies

Product Information

- Overview
- Specifications
- Ordering
- Accessories
- Kits & Reagents
- Consumables
- Documents

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- Confidence in your results bolstered by a system qualified by standards from National Measurement Institute (NMI), Australia
- Sets the standard for reproducibility as demonstrated in numerous studies

• Powerful software

- User-friendly analysis
- Audit trails and tools for U.S. FDA 21 CFR Part 11 compliance with premium edition
- Assay protocol files for automated data analysis and reporting with premium edition

• Portfolio compatibility

- Cross-compatibility with QX200 reagents, assays, and consumables
- Extensive menu of pre-existing ddPCR assays
- System capable of running both TaqMan® and EvaGreen chemistries

Applications of the QX600 Droplet Digital PCR System

The QX600 System enhances a wide variety of applications, including: oncology research, gene expression, next generation sequencing (NGS) orthogonal testing, cell and gene therapy, food and wastewater testing.

- **Oncology research** — The QX600 System collects more information per well, preserving precious circulating tumor DNA (ctDNA) and tumor samples.
 - Structural variant analysis
 - Rare variant detection
 - Copy number variation
 - Methylation detection
 - Loss of heterozygosity
- **Gene Expression** — Employ the extreme precision of the QX600 System to quantify small-fold changes in low abundance RNA molecules.
- **Next generation sequencing (NGS) orthogonal testing** — With the QX600 System perform accurate quantification and qualification of NGS libraries without the use of a standard curves.
- **Cell and gene therapy** — Accelerate therapeutics discovery with highly-advanced multiplexing afforded by the QX600 System.
 - Residual DNA detection in biologics
 - Genome edit confirmation
- **Food testing** — Use the QX600 System to perform routine evaluation of genetically modified organisms (GMO) and pathogen contamination detection.
- **Wastewater testing** — Leverage the QX600 System to perform population-wide monitoring of established and emerging pathogens.

Additional Instruments

The QX600 Droplet Digital PCR System requires the use of the PTC Tempo Deepwell Thermal Cycler or C1000 Touch Thermal Cycler with 96-Deep Well Reaction Module and the PX1 PCR Plate Sealer.

Required Accessories

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Thermal Cycler with 96-Deep Well Reaction Module and the PX1 PCR Plate Sealer.

Required Accessories

- > [DG8 Cartridges](#)
- > [DG8 Gaskets](#)

ddPCR Reagents for Hydrolysis Probe-Based Applications

- > [PrimePCR ddPCR Assays](#)
- > [ddPCR Multiplex Supermix](#)
- > [ddPCR Supermixes for Probes \(No dUTP\)](#)
- > [ddPCR Supermix for Probes](#)
- > [One-Step RT-ddPCR Advanced Kit for Probes](#)
- > [Residual DNA Quantification Supermixes](#)
- > [Droplet Generation Oil for Probes](#)
- > [Droplet Reader Oil](#)

ddPCR Reagents for EvaGreen Applications

- > [QX200 ddPCR EvaGreen Supermix](#)
- > [QX200 Droplet Generation Oil for EvaGreen](#)
- > [Droplet Reader Oil](#)

Related Products

- > [PTC Tempo Thermal Cycler](#)
- > [PrimePCR™ PCR Primers, Assays, and Arrays](#)
- > [PX1 PCR Plate Sealer](#)
- > [PTC Tempo Thermal Cycler](#)

Specifications

Starting sample size, µl	20
QX200 Droplet Generator capacity	1–8 samples/cartridge

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QX200 Droplet Generator capacity	1–8 samples/cartridge
Droplets per 20 µl sample	20,000
QX600 Droplet Reader capacity	1–96 samples
Sample illumination	Light-emitting diodes
Sample detection	Avalanche photodiodes
Detection channels	FAM (EvaGreen), HEX (VIC), Cy5, Cy5.5, ROX, and ATTO 590
QX200 Droplet Generator dimensions (W x D x H)	28 x 36 x 13 cm (11 x 14 x 5")
QX600 Droplet Reader dimensions (W x D x H)	66 x 52 x 29 cm (26 x 20 x 11")

Ordering



QX600 Droplet Digital PCR System
17007769
Discover how the QX600 Droplet Digital PCR System enables 6-color multiplexing, allowing clear discrimination of multiple targets within samples.

List Price: **Inquire**

[Log in](#) to see your price

Quantity:

Add to Cart

Add to Quote

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QX600 Droplet Reader
12013328
The QX600™ Droplet Reader enables advanced six-color multiplexing, allowing clear discrimination of multiple targets with assays that are cross-compatible with the QX200™ Droplet Digital™ PCR (ddPCR™) System.

List Price: **Inquire**

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Quantity:

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multiple targets with assays that are cross-compatible with the QX200™ Droplet Digital™ PCR (ddPCR™) System.

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QX200™ Droplet Generator

1864002

Droplet generator for EvaGreen or probe-based digital PCR applications, for use with QX200™ Droplet Digital™ PCR System

List Price: **\$30,000.00**

[Log in](#) to see your price

Quantity:

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QX Manager Software, Premium Edition

12018108

QX600 and QX200 System control and analysis software, with traceability for secure environments

List Price: **\$10,000.00**

[Log in](#) to see your price

Quantity:

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Accessories

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PX1 PCR Plate Sealer

List Price: **\$5,381.00**

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PX1 PCR Plate Sealer

1814000

PCR plate sealer, includes heat sealing instrument, plate support block that holds 96-well and 384-well plates, sealing frame, power cord

List Price: **\$5,381.00**

[Log in](#) to see your price

Quantity:

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PTC Tempo Deepwell Thermal Cycler

12015392

96-deepwell, thermal cycler for PCR with cables; for research use only.

List Price: **\$11,845.00**

[Log in](#) to see your price

Quantity:

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C1000 Touch™ Thermal Cycler with 96-Deep Well Reaction Module

1851197

Modular thermal cycler platform, includes C1000 Touch Thermal Cycler chassis, 96-deep well reaction module, USB flash drive

List Price: **\$11,590.00**

[Log in](#) to see your price

Promotion Available

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Kits & Reagents

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Kits & Reagents



ddPCR Multiplex Supermix, 1.2 ml
12005909
1.2 ml (2 x 0.6 ml), 4x supermix, for use in sample preparation for droplet generation in the QX600/QX200 Droplet Digital PCR Systems

List Price: **\$402.00**

[Log in](#) to see your price

Quantity:

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ddPCR Multiplex Supermix, 3 ml
12005910
3 ml (5 x 0.6 ml), 4x supermix, for use in sample preparation for droplet generation in the QX600/QX200 Droplet Digital PCR Systems

List Price: **\$1,004.00**

[Log in](#) to see your price

Quantity:

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ddPCR Multiplex Supermix, 12.5 ml
12005911
12.5 ml (5 x 2.5 ml), 4x supermix, for use in sample preparation for droplet generation in the QX600/QX200 Droplet Digital PCR Systems

List Price: **\$5,023.00**

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Quantity:

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ddPCR™ Supermix for Probes (No dUTP)

1863023

2 ml (2 x 1 ml), 2x supermix, for use in sample preparation for droplet generation in the QX600/QX200 Droplet Digital PCR Systems

List Price: **\$268.00**

[Log in](#) to see your price

Quantity:

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ddPCR Supermix for Probes (No dUTP)

1863024

5 ml (5 x 1 ml), 2x supermix, for use in sample preparation for droplet generation in the QX600/QX200 Droplet Digital PCR Systems

List Price: **\$670.00**

[Log in](#) to see your price

Quantity:

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ddPCR Supermix for Probes (No dUTP)

1863025

25 ml (5 x 5 ml), 2x supermix, for use in sample preparation for droplet generation in the QX600/QX200 Droplet Digital PCR Systems

List Price: **\$3,350.00**

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ddPCR™ Supermix for Probes

1863026

2 ml (2 x 1 ml), 2x supermix, for use in sample preparation for droplet generation in the QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$272.00**

[Log in](#) to see your price

Quantity:

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ddPCR™ Supermix for Probes

1863010

5 ml (5 x 1 ml), 2x supermix, for use in sample preparation for droplet generation in the QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$683.00**

[Log in](#) to see your price

Quantity:

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ddPCR™ Supermix for Probes

1863027

25 ml (5 x 5 ml), 2x supermix, for use in sample preparation for droplet generation in the QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$3,412.00**

[Log in](#) to see your price

Quantity:

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ddPCR™ Supermix for Probes

1863028

List Price: **\$6,825.00**

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ddPCR™ Supermix for Probes

1863028

50 ml (10 x 5 ml), 2x supermix, for use in sample preparation for droplet generation in the QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$6,825.00**

[Log in](#) to see your price

Quantity:

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One-Step RT-ddPCR Advanced Kit for Probes

1864021

200 x 20 µl reaction kit, for absolute quantification of target RNA in the QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$1,451.00**

[Log in](#) to see your price

Quantity:

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One-Step RT-ddPCR Advanced Kit for Probes

1864022

500 x 20 µl reaction kit, for absolute quantification of target RNA in the QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$3,626.00**

[Log in](#) to see your price

Quantity:

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ddPCR™ Buffer Control for Probes

1863052

9 ml (2 x 4.5 ml), 2x buffer, for use as blank control with Droplet Generation Oil for Probes

List Price: **\$336.00**

[Log in](#) to see your price

Quantity:

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1860002
9 ml (2 x 4.5 ml), 2x buffer, for use as blank control with Droplet Generation Oil for Probes

[Log in](#) to see your price

Quantity:

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QX200™ ddPCR™ EvaGreen Supermix
1864033
200 x 20 µl reactions, 2 ml (2 x 1 ml), 2x supermix, for use in sample preparation with the droplet generator in the QX600/QX200 Droplet Digital™ PCR System

List Price: **\$254.00**

[Log in](#) to see your price

Quantity:

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QX200™ ddPCR™ EvaGreen Supermix
1864034
500 x 20 µl reactions, 5 ml (5 x 1 ml), 2x supermix, for use in sample preparation with the droplet generator in the QX600/QX200 Droplet Digital™ PCR System

List Price: **\$638.00**

[Log in](#) to see your price

Quantity:

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QX200™ ddPCR™ EvaGreen Supermix
1864035
2,500 x 20 µl reactions, 25 ml (5 x 5 ml), 2x supermix, for use in sample preparation with the droplet generator in the QX600/QX200 Droplet Digital™ PCR System

List Price: **\$3,189.00**

[Log in](#) to see your price

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in the QX600/QX200 Droplet Digital™ PCR System

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QX200™ ddPCR™ EvaGreen Supermix

1864036

5,000 x 20 µl reactions, 50 ml (10 x 5 ml), 2x supermix, for use in sample preparation with the droplet generator in the QX600/QX200 Droplet Digital™ PCR System

List Price: **\$6,379.00**

[Log in](#) to see your price

Quantity:

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QX200™ Buffer Control for EvaGreen

1864052

9 ml (2 x 4.5 ml), 2x buffer, for use as a blank control with Droplet Generation Oil for EvaGreen

List Price: **\$372.00**

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Quantity:

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ddPCR™ Library Quantification Kit for Illumina TruSeq

1863040

200 x 20 µl reactions, includes ddPCR Library Quantification Assay and ddPCR Supermix for Probes (No dUTP), for quantification of Illumina TruSeq libraries using the QX200™/QX100™ ddPCR™ Systems

List Price: **\$1,333.00**

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Consumables



ddPCR™ 96-Well Plates

12001925

Pkg of 25, clear well/clear shell semi-skirted plates, for use with QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$213.00**

[Log in](#) to see your price

Quantity:

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Droplet Generation Oil for Probes

1863005

70 ml (10 x 7 ml), oil for use with droplet generator in the QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$410.00**

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Quantity:

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QX200™ Droplet Generation Oil for EvaGreen

1864005

14 ml (2 x 7 ml), oil for use with the droplet generator in the QX200 Droplet Digital™ PCR System

List Price: **\$90.00**

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EvaGreen
1864005
14 ml (2 x 7 ml), oil for use with the droplet generator in the QX200™ Droplet Digital™ PCR System

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QX200™ Droplet Generation Oil for EvaGreen
1864006
70 ml (10 x 7 ml), oil for use with the droplet generator in the QX200™ Droplet Digital™ PCR System

List Price: **\$398.00**

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ddPCR Droplet Reader Oil EcoTank for Probes
12019215
High-capacity droplet reader oil reservoir for use with the QX600 or QX200 Droplet Reader.

List Price: **\$4,017.00**

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ddPCR™ Droplet Reader Oil
1863004
2 L (2 x 1 L), oil for use with droplet reader in the QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$2,019.00**

[Log in](#) to see your price

Quantity:

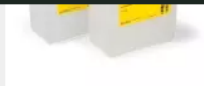
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DG8™ Cartridges for QX200™/QX100™ Droplet Generator

1864008

Pkg of 24, cartridges for use with the QX200 Droplet Generator

List Price: **\$345.00**

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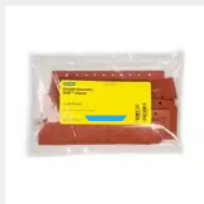
Quantity: 1

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DG8™ Gaskets for QX200™/QX100™ Droplet Generator

1863009

Pkg of 24, gaskets for use with QX200 Droplet Generator

List Price: **\$85.00**

[Log in](#) to see your price

Quantity: 1

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DG8™ Cartridges and Gaskets

1864007

5 pkg of 24 DG8 Cartridges, 5 pkg of 24 DG8 Gaskets, for use with the QX200 Droplet Generator

List Price: **\$2,076.00**

[Log in](#) to see your price

Quantity: 1

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DG8 Cartridge Holder
1863051
Pkg of 1, cartridge holder, positions and holds the cartridge in the QX200 Droplet Generator

List Price: **\$817.00**

[Log in](#) to see your price

Quantity:

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PCR Plate Heat Seal, foil, pierceable
1814040
Pkg of 100, foil seals for PCR and QX200/QX100 Droplet Digital PCR System applications, for use with PX1 PCR Plate Sealer

List Price: **\$127.00**

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Number	Description
3600	ddPCR Family Brochure



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Number	Description
3600	ddPCR Family Brochure
10000153877	QX600 Droplet Reader and QX Manager Software Standard Edition User Guide
3266	QX600 Droplet Reader
3557	QX600™ Droplet Digital™ PCR System Brochure
3560	Mutation Detection Multiplexing Using the QX600 Droplet Digital PCR System
3577	Multiplex Assay Design for Epidemiological Wastewater Monitoring with Droplet Digital™ PCR (ddPCR™) Technology
3578	Reproducible High-Resolution Characterization of AAV Vector Genome Identity Using the QX600 Droplet Digital PCR Platform

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