

Document title: QX ONE Droplet Digital PCR (ddPCR) System | Bio-Rad

Capture URL: <https://www.bio-rad.com/en-us/life-science/digital-pcr/qx-one-droplet-digital-pcr-ddpcr-system>

Page loaded at (UTC): Thu, 19 Jun 2025 22:30:33 GMT

Capture timestamp (UTC): Thu, 19 Jun 2025 22:32:02 GMT

Capture tool: 10.55.0

Collection server IP: 54.145.42.72

Browser engine: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.6478.234 Safari/537.36

Operating system: Linux (Node 20.17.0)

PDF length: 11

Capture ID: pEFc7u4zwwJLkmn6TK64ts

Display Name: dgeiger



BIO-RAD



[Login](#) | [Register](#)



[Home](#) > [Products](#) > [Life Science Products](#) > [Digital PCR](#) > [Droplet Digital PCR \(ddPCR\)](#) > [QX ONE Droplet Digital PCR \(ddPCR\) System](#)

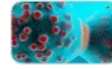
QX ONE Droplet Digital PCR (ddPCR) System



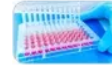
Overview



QX ONE ddPCR System Tour



Simultaneous Detection of Multiple Gene Mutations



A Quality Control Revolution for ddPCR

A high throughput, multiplexed and integrated droplet digital PCR system.

[Read full description](#)

[Ordering Information](#)

[Contact a Specialist](#)

[Description](#)
[Specifications](#)
[Ordering](#)
[Accessories](#)
[Kits & Reagents](#)
[Consumables](#)
[Downloads](#)
[Documents](#)

Description

The QX ONE ddPCR System is designed to deliver a precise and multiplexed digital PCR system. This system seamlessly integrates a standard ddPCR workflow of droplet generation, thermal cycling, droplet reading, and analysis into a hands-free precision platform.

Features and Benefits

The QX ONE ddPCR System offers users:

- Walk-away automation (5-plate capacity)
- Advanced multiplexing capabilities
- A new multiplex supermix and compatibility with existing supermix
- Easy-to-use QX ONE Software

Applications and Uses

- **Gene expression analysis** — achieve reliable and reproducible measurements of small fold changes for low-abundance mRNA and miRNA
- **Cancer biomarker studies and copy number variation** — measure varying degrees of cancer mutations, detect rare DNA target copies, and resolve copy number variation states with superior sensitivity and resolution. Predesigned wet-lab

QX Software for Digital PCR Systems



When connected to a ddPCR System, QX Software provides all necessary functionality to create, run, and analyze experiments on your samples.

[Learn More About QX Software for Digital PCR Systems »](#)

Buy Digital PCR Assays

Simply enter your target of interest or sequence and order a ddPCR Assay



[Find an Assay](#)

Give Feedback

IPR2024-01451

California Institute of Technology - Ex. 2019, Page 2

varying degrees of cancer mutations, detect rare DNA target copies, and resolve copy number variation states with superior sensitivity and resolution. Predesigned, wet-lab validated ddPCR Assays are now available for mutation and copy number detection

- **Pathogen detection** — employ extreme precision to quantify small fold changes in target DNA or RNA molecules in pathogen detection and monitoring
- **Next generation sequencing** — perform orthogonal testing of NGS results
- **Environmental monitoring** — test a wide variety of environmental samples such as soil and water
- **Food testing** — perform routine evaluation of difficult genetically modified organisms (GMO) using validated ddPCR kits and methods

Droplet Digital PCR Publications

Browse the growing list of cited peer-reviewed journal articles in Droplet Digital PCR research featuring Bio-Rad products.

[Browse Publications ↗](#)

Compatible Software

- [QX ONE Software, Regulatory Edition](#)
- QX ONE Software, Standard Edition*

*Please contact technical support for more information.

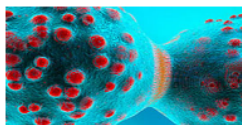
Included Components

- QX ONE Droplet Digital PCR (ddPCR) System
- QX ONE Accessory Kit (includes: QX ONE ddPCR System Waste Bottle, PX1 GCR Sealer Support Block, keyboard, power cord, and warranty card)

Required Consumables

- GCR96 Cartridges ([12006859](#))
- QX ONE Droplet Generation Oil for Probes ([12006058](#))
- QX ONE Droplet Reader Oil ([12006057](#))
- GCR96 Foil Heat Seal ([12006843](#))
- QX ONE ddPCR System Waste Bottle ([12006060](#))

On-Demand Webinars



Simultaneous Detection of Multiple Gene Mutations in Non-Small-Cell Lung Cancer ↗

Biodesix and Nature present a new multiplex liquid biopsy test using Droplet Digital PCR. The topics discussed in this webinar include the following:

- Comparison of ddPCR to RT-PCR technologies
- Performance data from validation studies
- Case studies with hospital network
- The next wave of SARS-CoV-2 assays for vaccine development and surveillance
- Pharma needs for vaccine development

Pharma needs for vaccine development

Articles



A Quality Control Revolution for Droplet Digital PCR ↗

Technical advances and enhanced automation are taking droplet digital PCR from a specialized research technique to a robust quality-control tool.

Specifications

Starting sample size, µl	20
Maximum capacity	480 samples/run
Droplets per 20 µl sample	Approximately 20,000
Sample illumination	Light-emitting diodes
Sample detection	Multi-pixel photon counter
Detection channels	FAM, HEX (VIC), Cy5, Cy5.5
Dimensions (W x D x H)	122 x 66 x 38 cm (48 x 26 x 15 in), 76 cm (30 in) top of monitor

Ordering



QX ONE Droplet Digital PCR System

12006536

QX ONE ddPCR System is designed to deliver automatic, multiplexed digital PCR

List Price: **Inquire**

[Log in](#) to see your price

Quantity:

[Add to Cart](#)

[Buy It Now](#)

[Add to Quote](#)

[Add to Hot List](#)

**QX ONE Software, Regulatory Edition**

12012078

QX ONE System Control and Analysis Software, with traceability for secure environments

List Price: **\$8,904.00**[Log in](#) to see your priceQuantity: [Add to Cart](#)[Buy It Now](#)[Add to Quote](#) [Add to Hot List](#)

Accessories

**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 priceQuantity: [Add to Cart](#)[Buy It Now](#)[Add to Quote](#) [Add to Hot List](#)

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 priceQuantity: [Add to Cart](#)[Buy It Now](#)[Add to Quote](#) [Add to Hot List](#)**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 priceQuantity: [Add to Cart](#)[Buy It Now](#)[Add to Quote](#)

Systems

[Buy It Now](#)[Add to Quote](#) [Add to Hot List](#)**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**[Log in](#) to see your priceQuantity: [Add to Cart](#)[Buy It Now](#)[Add to Quote](#) [Add to Hot List](#)**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 priceQuantity: [Add to Cart](#)[Buy It Now](#)[Add to Quote](#) [Add to Hot List](#)**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 priceQuantity: [Add to Cart](#)[Buy It Now](#)[Add to Quote](#) [Add to Hot List](#)**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**[Log in](#) to see your priceQuantity: [Add to Cart](#)[Buy It Now](#)[Add to Quote](#) [Add to Hot List](#)



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: [Add to Cart](#)

[Buy It Now](#) [Add to Quote](#)

[Add to Hot List](#)



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: [Add to Cart](#)

[Buy It Now](#) [Add to Quote](#)

[Add to Hot List](#)



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: [Add to Cart](#)

[Buy It Now](#) [Add to Quote](#)

[Add to Hot List](#)



ddPCR™ Supermix for Residual DNA Quantification

1864037

2 ml (2 x 1 ml), 2x supermix, for direct quantification of residual host cell DNA in the QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$538.00**

[Log in](#) to see your price

Quantity: [Add to Cart](#)

[Buy It Now](#) [Add to Quote](#)

[Add to Hot List](#)



ddPCR™ Supermix for Residual DNA Quantification

1864038

5 ml (5 x 1 ml), 2x supermix, for direct quantification of residual host cell DNA in the QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$1,354.00**

[Log in](#) to see your price

Quantity: [Add to Cart](#)

[Description](#) | [Specifications](#) | [Ordering](#) | [Accessories](#) | [Kits & Reagents](#) | [Consumables](#) | [Downloads](#) | [Documents](#)

5 ml (5 x 1 ml), 2x Supermix, for direct quantification of residual host cell DNA in the QX600/QX200 Droplet Digital™ PCR Systems

Quantity: [Add to Cart](#)[Buy It Now](#) [Add to Quote](#) [Add to Hot List](#)

ddPCR™ Supermix for Residual DNA Quantification

1864039

25 ml (5 x 5 ml), 2x supermix, for direct quantification of residual host cell DNA in the QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$6,714.00**[Log in](#) to see your priceQuantity: [Add to Cart](#)[Buy It Now](#) [Add to Quote](#) [Add to Hot List](#)

ddPCR™ Supermix for Residual DNA Quantification

1864040

50 ml (10 x 5 ml), 2x supermix, for direct quantification of residual host cell DNA in the QX600/QX200 Droplet Digital™ PCR Systems

List Price: **\$13,427.00**[Log in](#) to see your priceQuantity: [Add to Cart](#)[Buy It Now](#) [Add to Quote](#) [Add to Hot List](#)

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 priceQuantity: [Add to Cart](#)[Buy It Now](#) [Add to Quote](#) [Add to Hot List](#)

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 priceQuantity: [Add to Cart](#)[Buy It Now](#) [Add to Quote](#) [Add to Hot List](#)

Consumables



QX ONE Droplet Generation Oil for Probes

12006058

100 ml, droplet generation oil for use with the QX ONE ddPCR System

List Price: **\$2,527.00**

[Log in](#) to see your price

Quantity:

[Add to Cart](#)

[Buy It Now](#)

[Add to Quote](#)

[Add to Hot List](#)



QX ONE Droplet Reader Oil

12006057

700 ml, droplet reader oil for use with the QX ONE ddPCR System

List Price: **\$2,527.00**

[Log in](#) to see your price

Quantity:

[Add to Cart](#)

[Buy It Now](#)

[Add to Quote](#)

[Add to Hot List](#)



GCR96 Cartridges, pack of 10

12006859

Pack of 10 cartridges for use with the QX ONE ddPCR System

List Price: **\$4,675.00**

[Log in](#) to see your price

Quantity:

[Add to Cart](#)

[Buy It Now](#)

[Add to Quote](#)

[Add to Hot List](#)



GCR96 Foil Heat Seal

12006843

Foil heat seal to seal the GCR96 Cartridge, pack of 100

List Price: **\$152.00**

[Log in](#) to see your price

Quantity:

[Add to Cart](#)

[Buy It Now](#)

[Add to Quote](#)

[Add to Hot List](#)



QX ONE ddPCR System Waste Bottle

12006060

Waste bottle compatible with the QX ONE ddPCR System

List Price: **\$278.00**

[Log in](#) to see your price

Quantity:

[Add to Cart](#)

[Buy It Now](#)

[Add to Quote](#)

[Add to Hot List](#)

Download

QX ONE Software Standard Edition, Version 1.4 for ddPCR Data Analysis

QX-One-Software-Standard-Edition

Note: This software package is made available to QX ONE users for the purpose of "off-line" data analysis only. Do not attempt to update the software on the QX ONE system's touchscreen, as this must be performed by trained field service personnel.

[Log In](#) to download software

Documents

Login Required

Number	Description
3600	ddPCR Family Brochure
10000148582	QX ONE Software Standard Edition, User Guide
10000148670	QX ONE Software Regulatory Edition, User Guide
10000116512	QX ONE Droplet Digital PCR System and QX ONE Software, User Guide
10000167658	QX ONE Software v1.4, Release Notes
10000134674	QX ONE Droplet Digital PCR System and QX ONE Software v1.3, Release Notes
10000167259	QX ONE Software v1.1.1, Release Notes
10000167260	QX ONE Software v1.1.2, Release Notes
10000167261	QX ONE Software v1.2, Release Notes
3284	QX ONE Droplet Digital PCR System Workflow Tips for Success
3433	Preparing the QX ONE Droplet Digital PCR System for a Run

🔒 Login Required

Number	Description
📄 3600	ddPCR Family Brochure
📄 10000148582	QX ONE Software Standard Edition, User Guide
📄 10000148670	QX ONE Software Regulatory Edition, User Guide
📄 10000116512	QX ONE Droplet Digital PCR System and QX ONE Software, User Guide
📄 10000167658	QX ONE Software v1.4, Release Notes
📄 10000134674	QX ONE Droplet Digital PCR System and QX ONE Software v1.3, Release Notes
📄 10000167259	QX ONE Software v1.1.1, Release Notes
📄 10000167260	QX ONE Software v1.1.2, Release Notes
📄 10000167261	QX ONE Software v1.2, Release Notes
📄 3284	QX ONE Droplet Digital PCR System Workflow Tips for Success
📄 3433	Preparing the QX ONE Droplet Digital PCR System for a Run
📄 3432	Preparing a GCR96 Cartridge for a QX ONE Droplet Digital PCR System Run
📄 3431	Initiating and Managing a QX ONE Droplet Digital PCR System Run
📄 7034	QX ONE Droplet Digital PCR (ddPCR) System Flier, Ver D
📄 7278	QX ONE Droplet Digital PCR System Brochure, Ver A

Give Feedback

BIO-RAD

Follow Us



About Bio-Rad

Sustainability

Careers ↗

Bioradiations ↗

Newsroom ↗

Investor Relations ↗

Help Center

Home

Cybersecurity

Privacy

Trademarks

Web Accessibility

Your Privacy Choices

Site Terms

Terms and Conditions

United States

© 2025 Bio-Rad Laboratories, Inc.

IPR2024-01451

California Institute of Technology - Ex. 2019, Page 11