

Release Notes for QX Designer Software

Version 1.0

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Introduction

QX Designer Software gives you the ability to create, modify, and save Assay Protocol Files (APFs), which contain a range of predefined settings for one or more well types. When combined with QX Manager Software Premium Edition, APFs allow you to precisely control the design of your biological assay and analyses on your QX200™ Droplet Reader or QX600™ Droplet Reader.

Supported Operating System

QX Manager Software is supported on 64-bit Windows 10 and 64-bit Windows 11 operating systems.

Feature Summary

Using QX Designer Software, you can create complex configuration files called Assay Protocol Files, which contain unique well types with different settings for your QX200 or QX600 droplet reading runs. All QX Designer Software settings correspond with the options available in QX Manager Software Premium Edition. This section briefly explains the functionality available in the QX Designer Software APF package configuration screens:

- From the Home screen, you can view a list of recent APF packages, and prompt the application to open an existing APF package or create a new APF package.
- From the APF Package screen, you can apply a display name and description, select the target droplet reader and assign a version number and password to the APF.
- From the Plate Rules screen, you can assign a supermix to your plate run, or define well types that will configure plate and well information, including well types, experiment types, assay types, target information, and sample types.
- From the Plate Definition screen, you can associate one or more wells with a well type and sample type. You can also specify a sample ID or require a sample ID entry before you can start the droplet reading run.
- From the Kit Lot Information screen, you can require the use of consumables and reagent lots you have defined in QX Manager Software Premium Edition.
- From the Quality Rules screen, you can create validation rules for your ddPCR data, along with associated metrics.
- From the Data Analysis screen, you can define custom variables and calculations for your data outputs.
- From the Custom Results screen, you can format the APF Results display in QX Manager Software, Premium Edition, and select different text and background colors to highlight your data outputs.
- From the Custom Reports screen, you can configure the APF results in the PDF report you generate from QX Manager Software Premium Edition.

For more detailed information on QX Designer Software and QX Manager Software Premium Edition, download the documents identified in the Documentation section from bio-rad.com using the corresponding catalog numbers.

Known Issues

The following issues might occur when using QX Designer Software:

- When creating a new APF package with quality rules, if a Passing Value test and an *empty* Calculate Based On test have been added, the software does not allow you to generate an APF without applying at least one valid Calculate Based On test. Also, you cannot delete the empty Calculate Based On test.

Workaround: Remove the quality value completely. Add a new quality value with passing criteria, and then generate the APF package.

- When opening an APF package with quality rules assigned, saved tests under Passing Criteria that are assigned to a quality rule are sometimes not immediately visible.

Workaround: Close and reopen the APF package or add a new test under Passing Criteria. Adding a new test should render visible your previously saved tests, and you can delete the new test.

- After an APF is generated, if required fields are emptied or filled with invalid characters on the APF Package tab, the software displays a redundant error message at the bottom of the screen.
- When defining well types on the Plate Rules screen, the software updates the Plate Definition screen with new well types and/or sample types before they have been applied on the Plate Rules screen. If you return to the Plate Rules screen and do not apply/delete the changes to a well type or sample type, any fixed wells with those attributes are cleared on the Plate Definition screen

Documentation

For more information on the QX200 and QX600 Droplet Readers, QX Designer Software, and QX Manager Software, refer to the following documents:

- QX Designer Software Assay Protocol File Configuration Guide, v1.0
(Catalog No. 10000149015)
- QX200 Droplet Reader and QX Manager Software Premium Edition User Guide, v2.1
(Catalog No. 10000163733)
- QX600 Droplet Reader and QX Manager Software Premium Edition User Guide, v2.1
(Catalog No. 10000153878)

Contacting Technical Support

The Bio-Rad Technical Support department in the U.S. is open Monday through Friday, 5:00 AM to 5:00 PM, Pacific Time.

Phone: 1-800-424-6723, option 2

Email: Support@bio-rad.com (U.S./Canada Only)

For technical assistance outside the U.S. and Canada, contact your local technical support office or click the Contact Us link at www.bio-rad.com.

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