

Release Notes for the CFX Opus Real-Time PCR System, PTC Tempo Thermal Cycler, | and the BR.io Cloud Platform

Version 1.7.1

August 2023

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Introduction

Using the BR.io Cloud Platform with connected Bio-Rad instruments, you can remotely set up, run, monitor, and analyze your experiments. This document summarizes new features and improvements and provides a concise list of known issues.

Note: For detailed information regarding the CFX Opus real-time PCR system and the PTC Tempo thermal cycler, refer to the corresponding instrument guides available at www.bio-rad.com.

Supported Browsers

BR.io is supported on the following browsers:

- Chrome desktop browser v108 and above
- Safari desktop browser v16 and above

New Features

Connections to PTC Tempo 384-Well and 48/48 Dual Block Thermal Cyclers

In addition to PTC Tempo thermal cyclers with 96-well and 96-deepwell blocks, you can connect your 384-well block and 48/48 dual block PTC Tempo thermal cyclers to BR.io.

PTC Tempo Instrument Status Icons

You can view the following PTC Tempo instrument statuses in the Home and Instrument pages in BR.io:



Important: You might need to update your PTC Tempo software and firmware to view the different instrument statuses that appear in the Status column in BR.io. Click the link below and scroll through the available downloads in the Download section to locate the PTC Tempo software and firmware.

https://www.bio-rad.com/pcrupdates

Log into the website and follow the prompts to download the installation files.

PTC Tempo Infinite Hold Option

An Infinite Hold status option is available for temperature and gradient steps in PTC Tempo protocols. Infinite Hold automatically holds a defined temperature at a particular step in the protocol until the hold is manually released. You can add an Infinite Hold step from BR.io or from your PTC Tempo thermal cycler.

Improvements

New Locations for Upload Icon

The Upload icon has been removed from the application banner and relocated to the secondary banner in the Files and Manage Protocols pages.

Known Issues

BR.io

In the protocol view, if a protocol name with 255 characters contains no spaces, then the name does
not fit in the text box. To avoid text overflow past the field boundaries, use spaces in long protocol
names.

PTC Tempo

- You might encounter the following issues when linking your PTC Tempo instrument to BR.io:
 - If your browser is not connected to the network, submitting a valid instrument linking code prompts an invalid code error in BR.io.
 - You must use lower-case characters for your BR.io username, or the login fails during the linking process.
- If your PTC Tempo instrument loses internet connectivity, an in-progress run remains in progress in BR.io, and the instrument fails to upload a run report.
- If you are using a Safari browser and the PTC Tempo run report file name is between 252 and 255 characters, you cannot download the run report as a PDF. You must rename the file with fewer characters or use Google Chrome to download the PDF.
- For content allowed in certain fields, note the following differences between BR.io and the PTC Tempo:

Maximum time: In BR.io, you can set a maximum time for a protocol at 64800 seconds, but the PTC Tempo allows up to 64799 seconds only. If you enter 64800, the instrument automatically decreases the run time by 1 second.

Non-GOTO step fields: In BR.io, you can edit the Increment and Extend fields in temperature and gradient steps; however, the instrument does not allow editing of those fields and ignores the BR.io values during the run.

GOTO step counts: In BR.io, you can specify up to 9999 GOTO steps in a PTC Tempo protocol, but the instrument limits the user to 999 GOTO steps only. If you enter 1000 or more, the instrument automatically reduces the GOTO repetitions to 999.

Protocol name: In BR.io, you can name a PTC Tempo protocol using up to 255 characters, but the instrument allows up to 32 characters only.

Note: BR.io allows longer entries in alphanumeric character fields to support current and future connected instruments.

CFX Opus

- BR.io allows you to create CFX Opus protocols containing melt and temperature steps under 4° C, although those temperatures are not supported by CFX Opus instruments. To avoid issues with the run, ensure the temperature is 4° C or above.
- You must close the run successfully uploaded to your BR.io account dialog box soon after the run is completed, or BR.io incorrectly displays the CFX Opus status as Offline.
- If you navigate from the CFX run workflow while uploading a file, BR.io does not warn you about unsaved changes to your CFX run.
- For CFX Opus templates, note the following:
 - You must create CFX Opus run templates from an existing completed CFX run file.
 - You cannot open, view, or edit CFX Opus run templates independently.
 - After saving the run file created from a template, you cannot directly edit the sample list.
 - If the sample list contains fewer samples than the plate layout accepts, you must open the run file after it has been saved, and manually clear the unused wells from the plate.
- BR.io does not currently support the following:
 - Analysis of .pcrd or .zpcr files containing legacy or user-calibrated fluorophores; you can upload the files in BR.io, but errors are likely if you work with the data in the Analysis module.
 - Application-based analysis, such as standard curve/absolute quantification, gene expression/relative quantification, and allelic discrimination

Documentation

Click the following URL, and then click the icon to access the online Help Center.

https://br.io

For user assistance with main BR.io pages, you can select Help for This Page.

You can also click the down arrow above EXPLORE BR.io for links to the online help.



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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