

READ-OUT OF 4EVERYONEDETECTION KIT 2305-61 BEER SPOILERS TYPING RESULTS WITH QUANT STUDIO PLUS-MINUS SOFTWARE

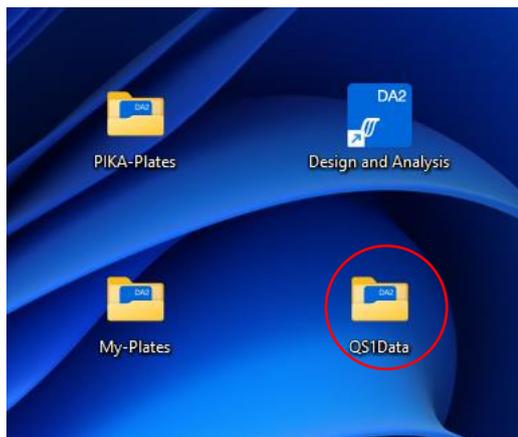
These instructions also apply to the Multipack Typing Kit SKU 2305-96-61.

Section 1

Open the Experiment Data

Make sure there was a connection between QuantStudio and the laptop after the run so the measured data were transmitted automatically.

- Start your laptop and log in as INSTR-USER, password INSTR-USER
- On the desktop, three folders are shown together with the Design and Analysis program
- If your desktop is not assigned in that way, have a look on the picture in the following how to make shortcuts to these folders



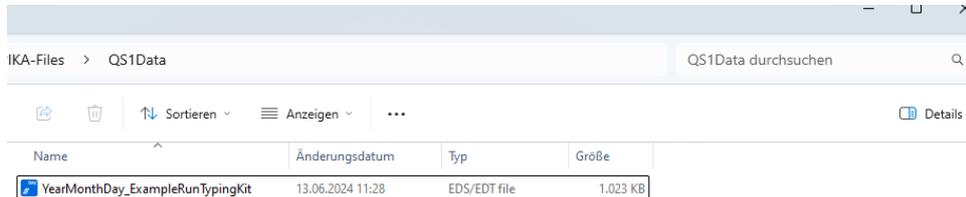
- Double click on the folder "QS1Data"

Name	Änderungsdatum	Typ	Größe
My-Plates	29.05.2024 04:41	Dateiordner	
PIKA-Plates	15.07.2024 14:08	Dateiordner	
QS1Data	15.07.2024 14:08	Dateiordner	

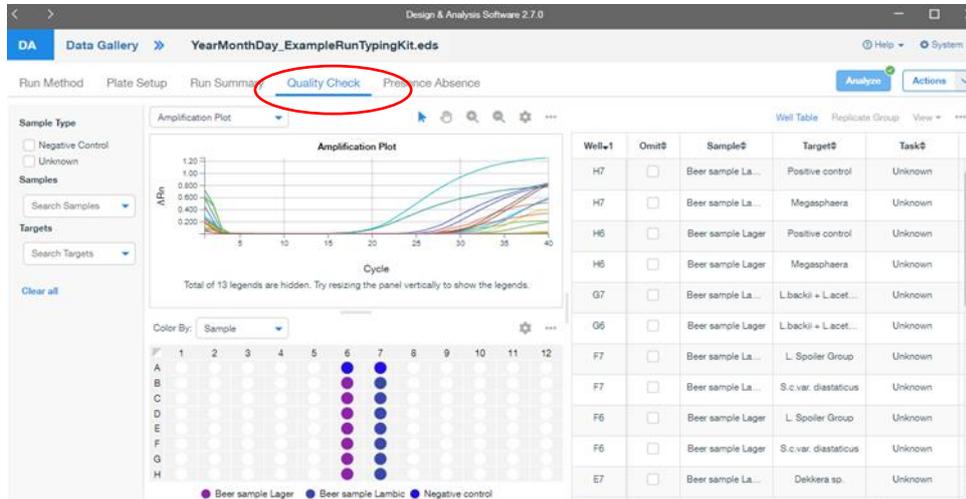
- If the shortcuts to these three folders are not available on the desktop, you can find the folders here: "This PC → AB SW&DATA (D:) → PIKA-Files"
- Create a desktop shortcut for the folder
 - o Right-click on the folder and select "Send to" -> "Desktop (create shortcut)"

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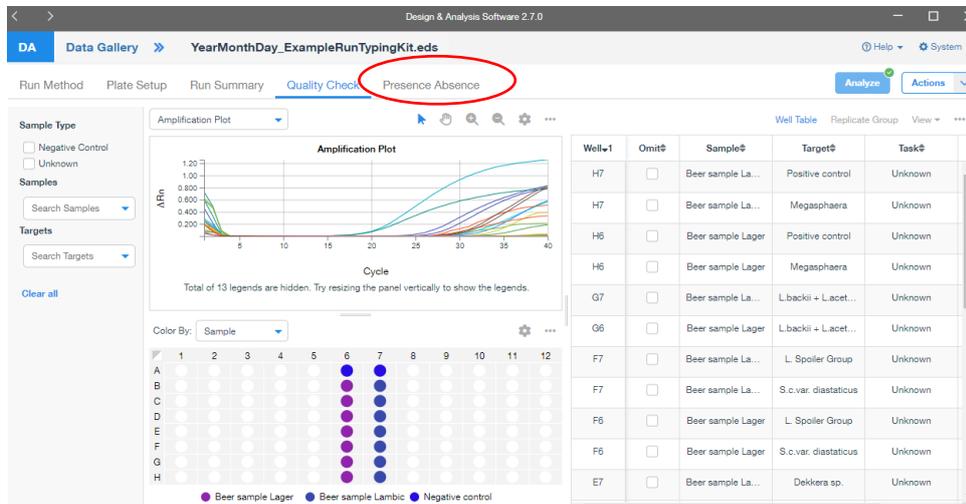
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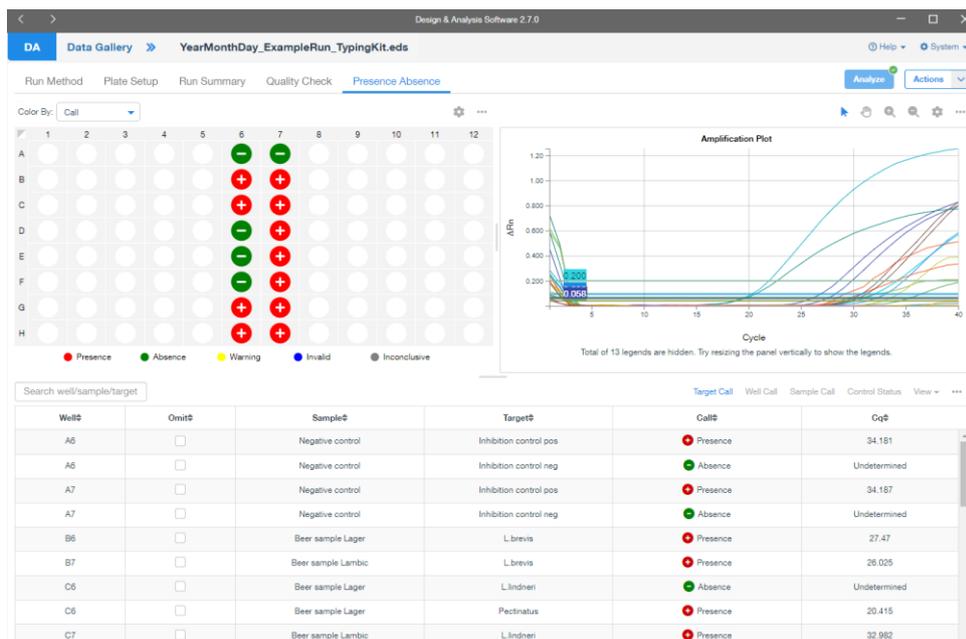
- All experiment runs are displayed in the folder "QS1Data"
- *Optional:* If the connection between Quant Studio and your laptop was interrupted during the run, the data file was not transferred to the QS1Data folder but is saved on the Quant Studio instrument only
 - o Transfer the results data file manually
 - o Refer to PIKA-TP-03, page 10, for a brief description how to manually transfer a data file from QuantStudio instrument to your laptop
- Double click on the experiment run with the name you want to evaluate, here for example "YearMonthDay_ExampleRunTypingKit"
- The DA2 software opens automatically in a new window that displays the tab "Quality Check"



- The view "Quality Check" is used only for troubleshooting



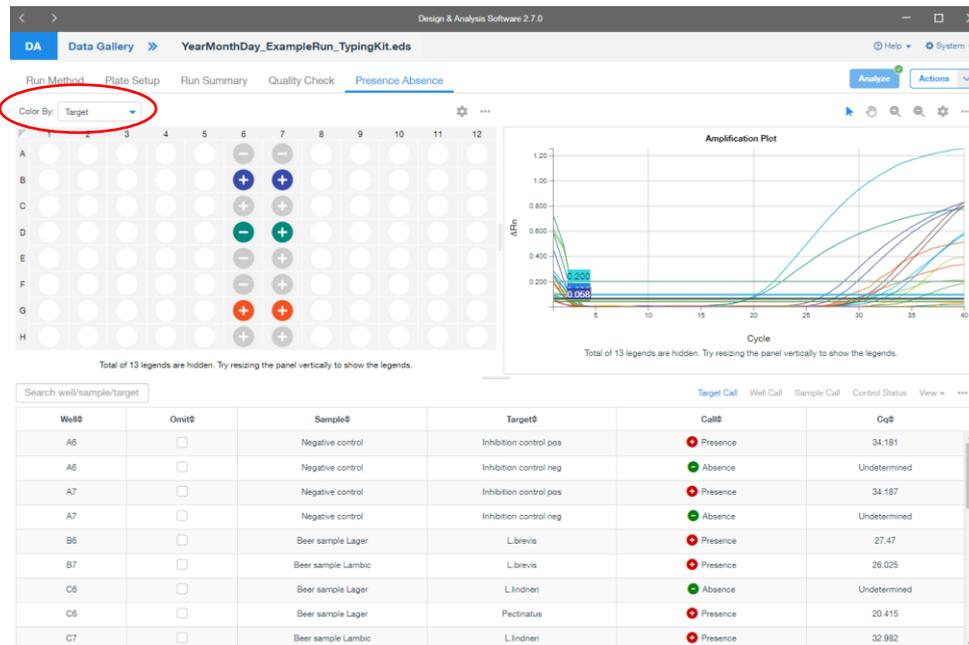
- Change to table "Presence Absence" for automated plus-minus read-out of results by a click on "Presence Absence"



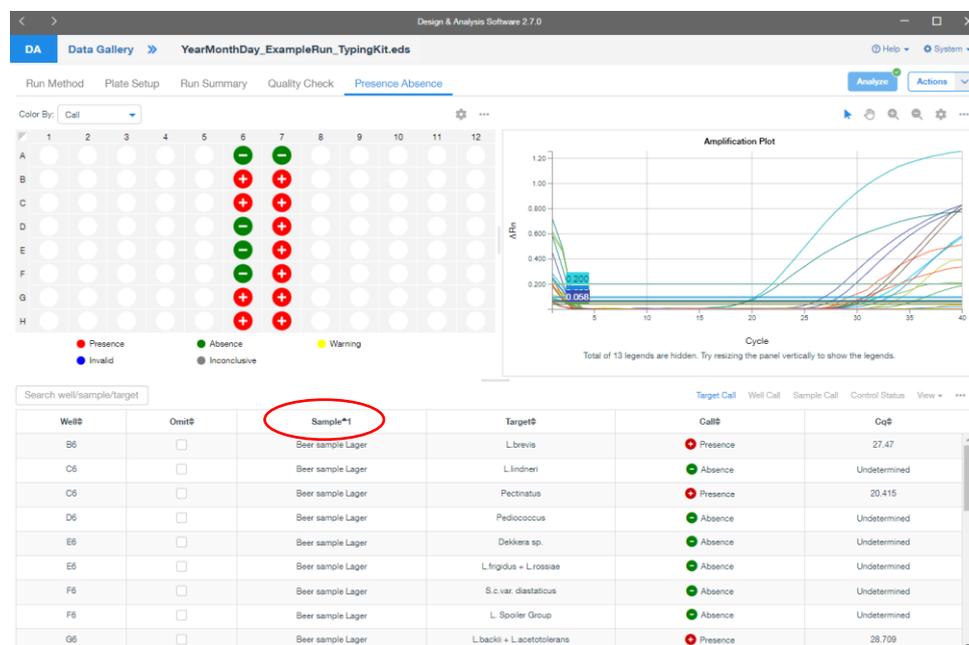
- Now the the plus minus results from the run are shown
- A green minus stands for "Absence" meaning the sample is negative for this test (Cq > 38,5)
- A red plus stands for "Presence" meaning the sample is positive for this test (Cq ≤ 38,5)
- In the table you can see the results of your samples including the Cq values
- The graph gives you information if the curves have a regular sigmoid shape

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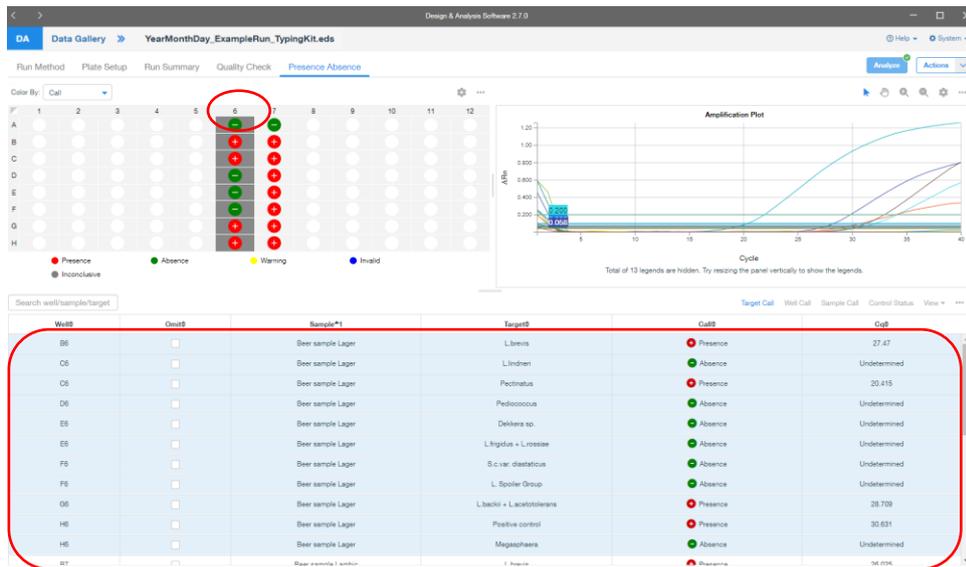
- In case the plate gives multicolor dots instead of the green minus and red plus icons, make sure you have activated "Color By: Call", not "Color By: Sample"
- You can change the view by a click on the blue triangle and select "Call"



- Click on the column header "Sample" to sort the results by sample names

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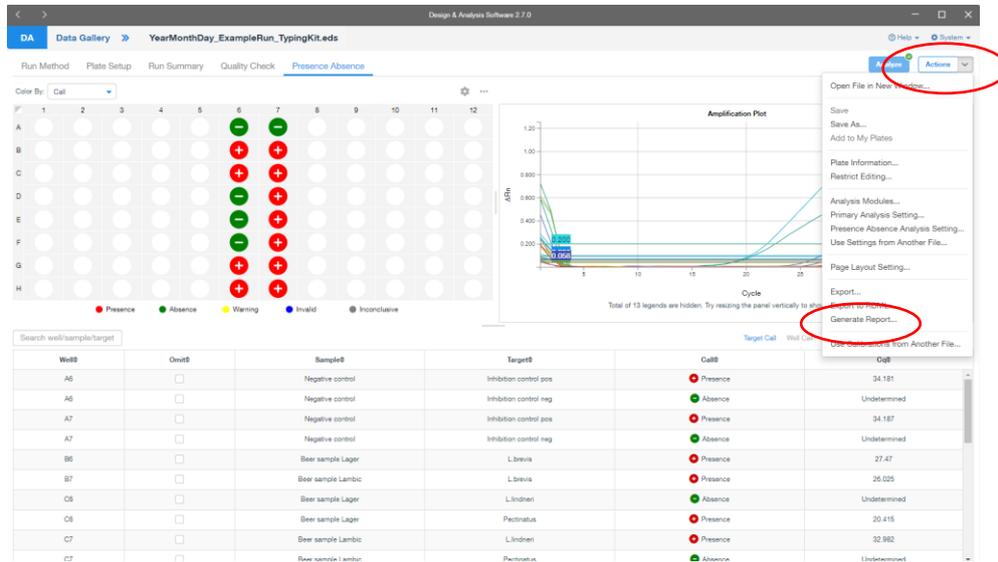
- Once you click on top of a column (here for example on column 6), all specific results from one sample are marked, here for example "Beer sample Lager"

Well#	Qubit#	Sample#1	Target#	Call#	Cq#
B6		Beer sample Lager	L.brevis	Presence	27.47
C6		Beer sample Lager	L.lindneri	Absence	Undetermined
D6		Beer sample Lager	Pectinatus	Presence	30.415
E6		Beer sample Lager	Pediococcus	Absence	Undetermined
F6		Beer sample Lager	Deinhera sp.	Absence	Undetermined
G6		Beer sample Lager	L.fingidus + L.slossae	Absence	Undetermined
H6		Beer sample Lager	S.c.var. diastaticus	Absence	Undetermined
I6		Beer sample Lager	L.Spoiler Group	Absence	Undetermined
J6		Beer sample Lager	L.backii + L.lactotolerans	Presence	28.709
K6		Beer sample Lager	Positive control	Presence	30.631
L6		Beer sample Lager	Megascaphera	Absence	Undetermined
M6		Beer sample Lager		Presence	36.054

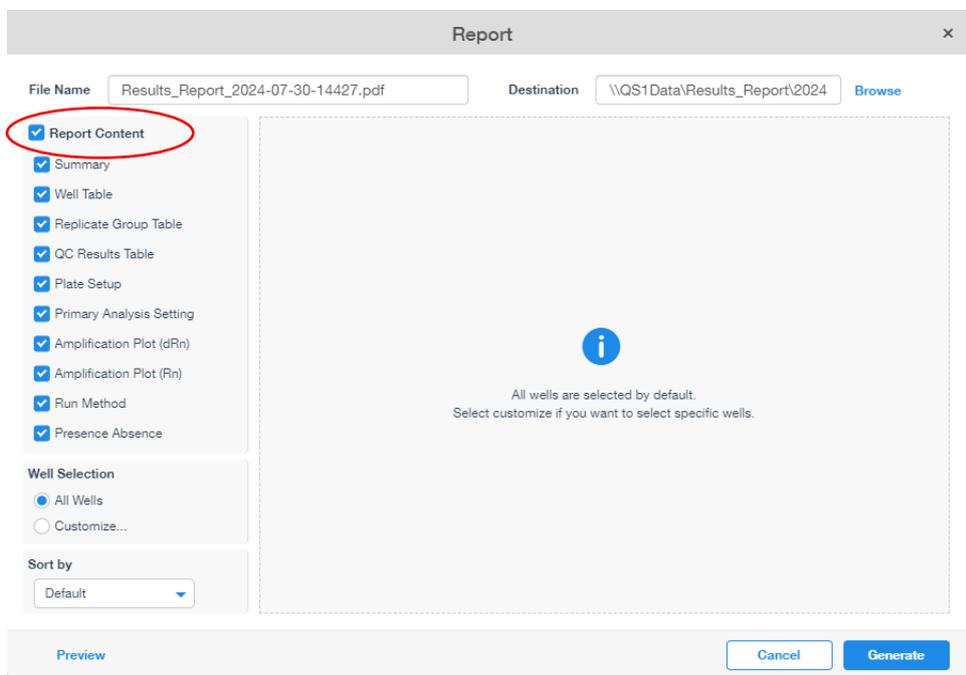
- Each well can theoretically be used for testing of two targets in two separate channels.
- In the Typing Kit, some wells are in use for a single target detection, some for measurement of two targets/both channels
 - o Some wells will display one line only (B, D, G)
 - o Some wells will display two lines (A, C, E, F, H) meaning there are two targets measured in parallel
 - example shows C6 where L. lindneri is negative "Absence" while Pectinatus is positive "Presence"

Section 2

Generate a Report



- To export your data to a .pdf report, click on "Actions"
- From the menu which opens, choose "Generate Report..."



- Adjust the selection of information which shall be included in the report
 - o First activate and then immediately inactivate all checkmarks for "Report Content" by two following clicks on "Report Content"
 - o Then tick "Presence Absence"

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Report

File Name: Results_Report_2024-07-30-14427.pdf Destination: \\QS1Data\Results_Report\2024 Browse

Report Content

- Summary
- Well Table
- Replicate Group Table
- QC Results Table
- Plate Setup
- Primary Analysis Setting
- Amplification Plot (dRn)
- Amplification Plot (Rn)
- Run Method
- Presence Absence

Well Selection

- All Wells
- Customize...

Sort by

Sample Name

Preview Cancel Generate

- Click on the blue triangle "Sort by" and select "Sample Name"

Report

File Name: Results_Report_2024-07-30-14427.pdf Destination: \\QS1Data\Results_Report\2024 Browse

Report Content

- Summary
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Well Selection

- All Wells
- Customize...

Sort by

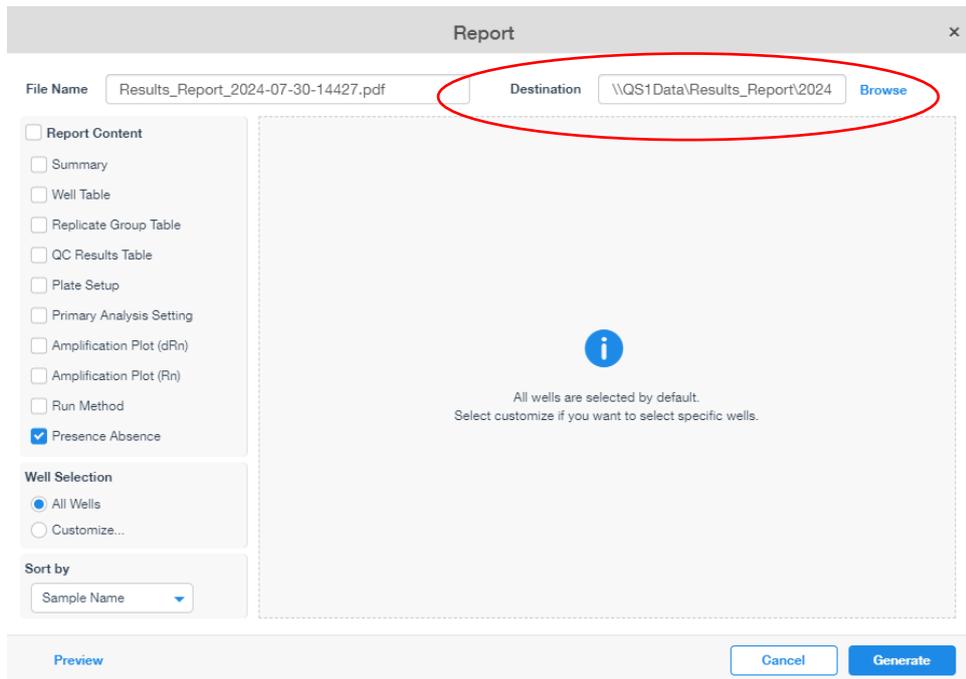
Sample Name

Preview Cancel Generate

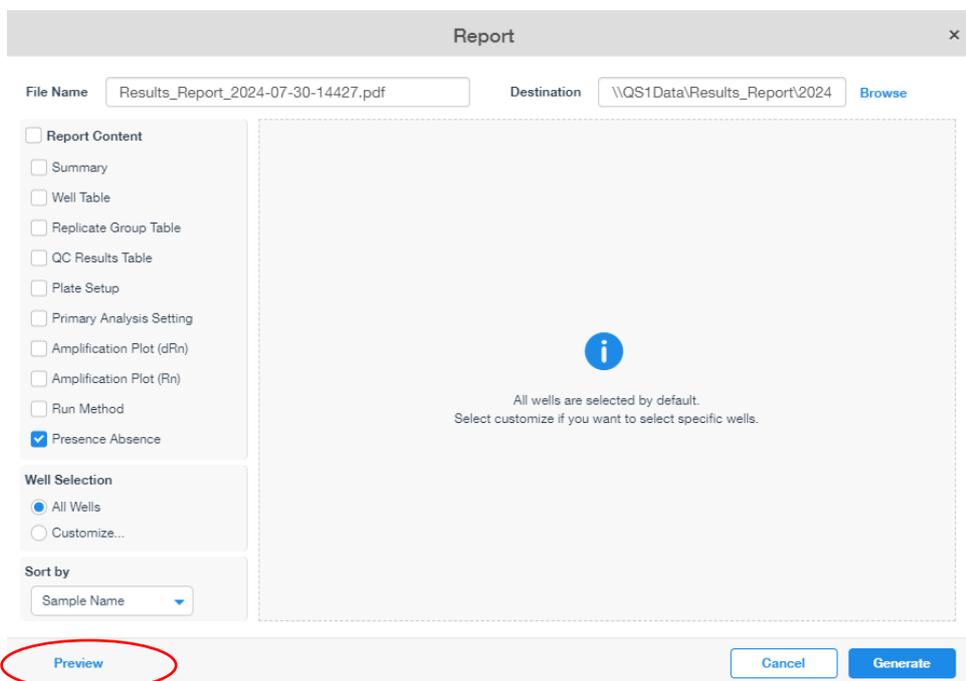
- Give your report a unique name

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- Choose the destination for saving the report by a click on "Browse" and select the folder where you want to save the report



- Before you save the report, you can
 - o check if the content of the report is matching your needs by a click on "Preview" in the bottom left corner
 - o select more information to be included in the report

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The screenshot shows a 'Report' dialog box with the following elements:

- File Name:** Results_Report_2024-07-30-14427.pdf
- Destination:** \\QS1Data\Results_Report\2024
- Report Content:** A list of checkboxes for report sections: Summary, Well Table, Replicate Group Table, QC Results Table, Plate Setup, Primary Analysis Setting, Amplification Plot (dRn), Amplification Plot (Rn), Run Method, and Presence Absence (checked).
- Well Selection:** Radio buttons for 'All Wells' (selected) and 'Customize...'
- Sort by:** A dropdown menu set to 'Sample Name'.
- Buttons:** 'Preview', 'Cancel', and 'Generate' (circled in red).
- Message:** An information icon and text stating: "All wells are selected by default. Select customize if you want to select specific wells."

- Click on "Generate" to save the report at the destination you chose before