

READ-OUT OF 4EVERYONE DETECTION 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"

My-Plates 29.05.2024 04:41 Dateiordner PIKA-Plates 15.07.2024 14:08 Dateiordner QS1Data 15.07.2024 14:08 Dateiordner		Name	Änderungsdatum	Тур	Größe
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- 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
 - Right-click on the folder and select "Send to" -> "Desktop (create shortcut)"

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IKA-Files > QS1Data				QS1Data durchsuchen			۹
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Name	Änderungsdatum	Тур	Größe				
芦 YearMonthDay_ExampleRunTypingKit	13.06.2024 11:28	EDS/EDT file	1.023 KB				

- 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
 - 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 evaulate, here for example "YearMonthDay_ExampleRunTypingKit"
- The DA2 software opens automatically in a new window that displays the tab "Quality Check"

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



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

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A6		Negative control	Inhibition control neg	Absence	Undetermined
A7		Negative control	Inhibition control pos	Presence	34.187
A7		Negative control	Inhibition control neg	Absence	Undetermined
B6		Beer sample Lager	L.brevis	Presence	27.47
В7		Beer sample Lambic	L.brevis	Presence	26.025
C6		Beer sample Lager	L.lindneri	Absence	Undetermined
C6		Beer sample Lager	Pectinatus	Presence	20.415
C7		Beer sample Lambic	L.lindneri	Presence	32.982

- 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 \leq 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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	A7			Negative o	ontrol		Inhi	bition co	ontrol p	os	Presence	34.187
	A7			Negative c	ontrol		Inhi	pition co	ontrol ne	eg	Absence	Undetermined
	B6			Beer sample	e Lager			L.bre	vis		Presence	27.47
	B7			Beer sample	Lambic			L.bre	vis		• Presence	26.025
	C6			Beer sample	e Lager			L.lindi	neri		Absence	Undetermined
	C6			Beer sample	e Lager			Pectin	atus		Presence	20.415
	C7			Beer sample	Lambic			L.lindi	neri		Presence	32.982

- 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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C6		Beer sample Lager	Llindneri	C Absence	Undetermined
C6		Beer sample Lager	Pectinatus	O Presence	20.415
D6		Beer sample Lager	Pediococcus	C Absence	Undetermined
E6		Beer sample Lager	Dekkera sp.	C Absence	Undetermined
E6		Beer sample Lager	Lifrigidus + Lirossiae	Absence	Undetermined
F6		Beer sample Lager	S.c.var. diastaticus	Absence	Undetermined
F6		Beer sample Lager	L. Spoller Group	Absence	Undetermined
Q6		Beer sample Lager	L.backii + L.acetotolerans	O Presence	28.709
HS		Beer sample Lager	Positive control	O Presence	30.631
на		Beer sample Lager	Megasohaera	Absence	Undetermined

- 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©	Omit©	Sample*1	Target‡	Call©	Cq¢
B6		Beer sample Lager	L.brevis	O Presence	27.47
C6		Beer sample Lager	Llindneri	 Absence 	Undetermined
C6		Beer sample Lager	Pectinatus	O Presence	20.415
D6		Beer sample Lager	Pediococcus	C Absence	Undetermined
E6		Beer sample Lager	Dekkera sp.	C Absence	Undetermined
E6		Beer sample Lager	Lfrigidus + Lrossiae	Absence	Undetermined
Fő		Beer sample Lager	S.c.var. diastaticus	Absence	Undetermined
F6		Beer sample Lager	L. Spoiler Group	C Absence	Undetermined
G6		Beer sample Lager	Libackii + Lacetotolerans	O Presence	28.709
HS		Beer sample Lager	Positive control	O Presence	30.631
HS		Beer sample Lager	Megasphaera	 Absence 	Undetermined
87		Rear rample I amhir	1. brasie	A Paranca	26.025

- 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
 - Some wells will display one line only (B, D, G)
 - Some wells will display two lines (A, C, E, F, H) meaning there are two targets mesured in parallel
 - example shows C6 where L. lindneri is negative "Absence" while Pectinatus is positive "Presence"

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Section 2

Generate a Report



- To export your data to a .pdf report, click on "Actions"

- From the menue which opens, choose "Generate Report..."

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- Adjust the selection of information which shall be included in the report
 - 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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- Click on the blue triangle "Sort by" and select "Sample Name"

		Report			×
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- Give your report a unique name





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

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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

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ile Name	Results_Report_	2024-07-30-14427.pdf	Destination	\\QS1Data\Results_Report\2024	Browse	
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- Before you save the report, you can
 - 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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- Click on "Generate" to save the report at the destination you chose before