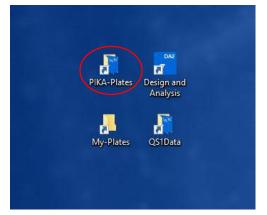


# RUN 4EVERYONE DETECTION KIT 2305-61 BEER SPOILERS TYPING ON QUANTSTUDIO PLUS-MINUS SOFTWARE

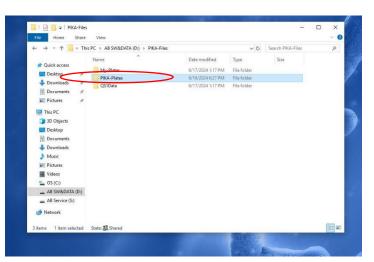
#### Section 1

# Set up an Experiment

- Switch on your laptop
- Log in as INSTR-USER, password INSTR-USER
- On the desktop, three folders are displayed together with the Design and Analysis program
- If your desktop is not assigned in that way, have a look on the second picture how to prepare shortcuts to these folders



Double click on the folder "PIKA- Plates"



- 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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General Manager: Dr. Gudrun Vogeser Commercial Register: Ingolstadt, HRB 5027

RUN 4 EVERYONE DETECTION KIT 2305-61 BEER SPOILERS TYPING ON QUANT STUDIO PLUS-MINUS SOFTWARE



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- In folder PIKA-Plates, all 4 everyone Detection Kits are displayed with their product numbers
- Double click on the kit you want to run, here for example "2305-61\_ BeerSpoiling\_Bacteria+Yeasts\_ Typing"
- The DA2 software opens automatically in a new window

RUN 4EVERYONE DETECTION KIT 2305-61 BEER SPOILERS TYPING ON QUANT STUDIO PLUS-MINUS SOFTWARE



#### Section 2

# Program Your Test



#### - Switch to Plate Setup by a click on the table

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- If you don't run 12 samples / don't use a full 96 well plate
  - select the positions in the center of the thermoblock to position the sample strips
  - you should always insert one full empty breakable tubes strip into each of the edge rows 1 (positions A-H) and 12 (positions A-H) of the thermoblock
    - close empty breakable tube strips with a matching cap strip or cover foil, depending on the material you are going to use for your samples
    - NEVER mix strips with caps and strips covered with PCR foil together in one run
    - Doing so will allow better pressure distribution of the heated cover during the measuring process
- This table basically works same as an Excel table

# WEIHENSTEPHAN

# RUN 4 EVERYONE DETECTION KIT 2305-61 BEER SPOILERS TYPING ON QUANT STUDIO PLUS-MINUS SOFTWARE

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- Select all fields within one row below the negative control (B to H)
- To select multiple positions together, press the "shift" key and hold it while clicking on the different positions to select them all

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- Tick "Sample 1" for your first sample

#### RUN 4 EVERYONE DETECTION KIT 2305-61 BEER SPOILERS TYPING ON QUANT STUDIO PLUS-MINUS SOFTWARE



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DJ	Plate Gali	ny » 2305-	61_BeerSpoiling	Bacteria+Yeaste	Typing_QS1_200	al_plus-minus.ed	t											@Hole +	O Bystern +
R	n Method Plat	a Satup - Run Si	immary																ichiora 🗸
Pare	eve Belevence	ROK	•							9,	100% Q, M,	= •	Sarry	ples (13) Biogroup	10				+ -
2	1	2	3	4	5	6	7	8	9	10	11	12		Named	Galer	Ivert	Owner	Degroup	۲
	Negative corc	Negation 2017	Negative con	Negative com	Negetive con	Negative con	Negetice con	Negative con	Negative con	Negetive con	Negative con	🙁 Negetice co		Newbye control		Newsys Control			(i) =
	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr		Inhibition contr	Inhibition contr	Inhibition centr	Inhibition contr	Inhibition cont				Uningen			_
	Inhibition contr	Inhibition conts	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Unibition contra	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition cont		Sample 1	•				۲
	Erter Sample	Enter Sample	Enter Sample	Enter Sample	Sample 1	Sample 2	Sample 3	Enter Sample	Enter Sample	Enter Sample	Enter Sample	Enter Samp	~			Unaven			۲
U	Lbevis	Linevis	Lizevis	Linwis	Linevis	Ubewis	(Lineis =) =	.towain	Lbrevis	Linesis	Lizevia	Lineis		Sample 3	•	Utknown			۲
								1					0		•	Unkloan			- 00
	Erter Sample	🛑 Enter Sampla	Erter Sample	Enter Sampla	Sample 1	Semple 2	Sample 3	Catter Sample	Enter Sample	Enter Sample	Enter Sample	Enter Samp		Sample 5	٠	Unknown			۲
	Llindneri	Ländneri	Lindneri	Llindneri	Lindneri	Llindneri	Llindneri	Lindneri	Llindheri	Lândreri	Llindneri	Llindneri		Sample 6	٠	Unknown			۲
	Pectinatus	Pectinatus	Pectinatus	Pectinatus	Pectinatua	Pectinato	Pectinatus	Pechatus	Pectivatus	Pectinatus	Pectinatus	Pectivatus		Sample 7		Unknown			
	Friter Semple	Enter Sample	Enter Semple	Enter Sample	Sample 1	Semple 2	Semple 3	France Security	Enter Sample	Firter Semple	Enter Sample	Enter Samp		Sample 8		Unknown			
D	Pediecoccus	Pediococcus	Pediococcus	Pediococous	Peciosoccus	Pediocolous	Pediococcus	Pedio occus	Pediococcus	Pediosoccus	Pediococcus	Pediococcus		Sample 9		Unknown			
														Sample 10		Unknown			
	Enter Sample	Enter Sample	Enter Sample	Enter Sample	Semple 1	Sampe 2	Sample 3	Crite Sample	Conter Sample	Enter Sample	Criter Sample	Enter Samp			•				
F	Lingidus i Lio	Lingidus - Liro	Lingidus i Liro	Lingidus - Lio	Lingidus i Liro	Lingidue i Linc	Lingidus - Liro	Lingious i Lio	Lingidus - Lio	Lingidus i Liro	Lingidus i Liro	Lingidus i Li		Energie II		Univora			@ *
	Dekkera sp.	Dekkera sp.	Dekkera sp.	Dekkera.sp.	Dekkera sp.	Dekkera sp.	Dekkera sp.	Deliketa sp.	Dekkera.sp.	Delétera sp.	Dekkera sp.	Dekkera.sp.	Lwo	Hk (10) Respector()	0				+
	Erter Sample	Enter Sample	Enter Sample	Enter Sample	<ul> <li>Semple 1</li> </ul>	Sampe 2	Sample 3	Cinter Sample	Enter Sample	Cinter Sample	Cinter Sample	Enter Samp		Target0	Color	Reporter®	Quencher®	Tank	
F	L. Spoller Group	L. Spoller Group	L. Spoler Group	L. Spoller Group	L. Spoller Group	L Spole Group	L. Spoller Group	L. Speller Group	L. Spoler Group	L. Spoiler Group	L. Spoller Group	L. Spoller Grov		Deviera so.		VIC	NIGHISE	*	
	S.o.var. diastat	S.c.var. diastat	S.c.var. clastat	S.s.var. diastati	S.c.var. diastati	G.o.var. dastati	S.c.var. diastati	S.c.w.: ciastati	S.c.var. diastati	S.c.var. diastat	S.c.var. ciastati	S.c.var. diasta		Inhibition control neo		IAM	NOMO		- 1
	Linter Sample	Linter Sample	Linter Sample	Cinter Sample	Gample 1	Gample 2	Sample 3	Currer Sample	Cinter Sample	Cinter Sample	Cinter Sample	Cinter Samp		Inhibition control pos		90	NFO-MO8		- 1
G	Lbecki + Lace	Litecki + Lace	Libeoldi + Liapa	Lbacki + Laos	Liteolii + Laos	Lbecki + ace	Libecki + Lace	Libertei + Lapa	Lbocki + Lace	Lbacki + Lace	L.beokii + L.epe	Lbacki + Lac			•				_
						<u>۱</u>								L. Spoller Group	•	FAM	NFQ-M08		
	Erter Sample	Enter Sample	Enter Sample	Enter Sample	Sample 1	Gample 2	Sample 3	Catter Sample	Enter Sample	Enter Sample	Enter Sample	Enter Samp		Libradet + Lincetotal	•	15 M	NFO-M38	*	
n.	Positive control	Positive control	Positive control	Positive control	Positive control	Positive control	Positive control	dusition control	Positive control	Positive control	Positive control	Positive contra		Librova	•	EVM.	NFO M38	*	
	Megasphaera	Megiophiesi	Megasphaera	Megasphaera	Megasphaera	Megaphiera	Megasphaera	Megasphaers	Megaspheera	Megasphaes	Megasphaera	Megaspheera		Liftigklus + Lirossiae	•	64M	NFG-M08	*	
							/							Ländneri	•	E4M	NFQ-M38	•	
							$\smile$							Megaphama		VIC	NFO-MOB		
														Peterstay		10	NFO M38	*	
														Pedrocerus		FAM	NEO-MISE		
													5	Pearococcus	•	EAM .	N=0-M38		-

- Repeat this precedure column by column for the number of samples to be tested, use the subsequent sample numbers (here for example 3 samples)

Plate Galia	ary » 2305	61 BeerSpolling	Becterie+Yeests	Typing QS1 200	al plus-minus.ed												O I Ma +	010
Method Plat	e Setup - Run S	anmary																lation
Tieteracce [	na	•)							Q,	-cos Q, N,	= 0	Sam	plex (13) Biogroup (	1				+
1	2	3	4	5	6	7	8	9	10	11	12		Name®	Color	Troct	Quantity®	Bicgroup	
	Negative con	Negative con	Negative con		Negative con	Negative con	Negative con	Negative con	Negative con	Negative con	Negative co		Necetive control		Negative Control			
hibition contr	inhibition contr		Inhibition centr	inhibition contr	Inhibition contr	inhibition contr	Inhibition contr	Inhibition contr	inhibition contr	Inhibition contr	Inhibition cont		lark.		Unknown			
hibition contr	inhibition contr	Inhibition contr	Inhibition centr	inhibition contr	Inhibition contr	inhibition contr	Inhibition contr	Inhibition contr	inhibition contr	Inhibition contr		-	Sancie 2	-	Unknown	<i>,</i>		
	Enter Sample	Enter Sample	Enter Sample	🔵 tank	Sample 2	<ul> <li>Bample 3</li> </ul>	Erter Sampla	Erter Sample	Enter Sampla	Enter Sample	Enter Samp			•				
brevis	Lbrevis	Lbrevis	Ubreris	Lbrevis × *	Utrevis	Ubrevis	Lbrevis	Librevis	Lbrevis	Linevis	Lbrevis		Sanple 3	•	Unknown			
													Sample 4	•	Unknown			
	Enter Sample	Enter Sample	Enter Sample	🛑 tarik	Sample 2	<ul> <li>Bample 3</li> </ul>	Erter Sample	Erter Sample	Enter Sample	Enter Sample	Enter Samp		Sample 5	•	Unknown			
indheri	Llindheri	Llindheri	Lindreci	Llindneri	Lindneri	Uindheri	Llindneri	Lindnei	Llindheri	Lindneri	Lindreri		Earple 5	٠	Unknown			
ectivatus	Pedinstas	Dectinatus	Pectineitae	Pedicetes	Dectinatus	Pectinatus	Pedinetus	Declinitiae	Pedinetus	Declinatus	Pectinetas		Eample 7	•	University			
	Enter Sample	Enter Sample	Enter Sample	🔵 tarik	Sample 2	<ul> <li>Bample 3</li> </ul>	Erter Sample	Erter Sample	Enter Sampla	Enter Sample	Enter Samp		Sample 8		Unknown			
ediococcus	Pediococcue	Pediococcus	Peciesoccus	Pediococcus	Pediococcus	Pedicoscue	Pediococcus	Pecíacoccus	Pediococcus	Pedicoccus	Pediococcus		Samula 2		Unknown			
													Sample 10		Unincer			
	Enter Sample	Enter Sample	Enter Sample	🔵 tarik	Bemple 2	<ul> <li>Bample 3</li> </ul>	Enter Sample	Erter Sample	Enter Sample	Enter Sample	Enter Semp			•				
frigidus + L.ro	Lfrigidus + Lro	Lfrigidus - L.ro	Lfrigidue + Lzo	Lifrigidus + L.ro	Lifigidus + L.ro	Lifigidus + Lite	Lfrigidas - Lro	Lfrigidue + Lzo	L/rigidus + L.m	Lfrigidus + Lzo	Lfrigidue + Lz		Dample 11	•	Unknown			
ekkens sp.	Dekkens sp.	Dekkers sp.	Dekkere sp.	Dekkens sp.	Deitlors sp.	Dekkers sp.	Dekkens sp.	Пейленар.	Dekkens sp.	Dekkers sp.	Dekkers sp.	Turp	cta (F3) Heagents (I)					
	Enter Sample	Enter Sample	Enter Sample	🔵 tarik	Bemple 2	<ul> <li>Sample 3</li> </ul>	Enter Sample	Erter Sample	Enter Sample	Enter Sample	Enter Semp		Target0	Color	Reporter®	Quencher@	Task	
Spoiler Group	L. Spoiler Group	L. Spoiler Group	L. Spoiler Group	L. Spoiler Group	L. Spoiler Group	L. Spoiler Group	L. Spoiler Group	L. Spoiler Group	L. Spole: Group	L. Spoiler Group	L. Spoiler Gros		inhibition control pos	٠	MC .	NFG-MGB		
c.as. dietati	S.c.m. disetati	Scast diststi	S.c.vat disetati	S.c.vat. disstati	S.c.ver. disststi	S.c.vsr. disetati	S.c.vat. daststi	Score disetsi	S.c.ast. disststi	S.c.vs. disetsti	S.c.vat disets		L New Yorkey	•	TAM	NEGMEN		
	Enter Sample	Enter Sample	Enter Sampia	🔵 tarik	Semple 2	<ul> <li>Semple 3</li> </ul>	Erter Sampla	Erter Sample	Enter Sample	Enter Sample	Enter Semp		L hazid + L azetotol		FAM	NFG-MOB		
backi + Lace	L.becki + L.aze	Lbscki + Lace	Libecki + Liece	Lbacki + Lace	Lbacki + Lace	Lbacki + Laos	Lbacki + Lace	Libecki + Lace	Lbecki + Laze	Lbacki + Lace	L.backi + L.a:		Lbrevite		FAM	NED.MOR	Unknow	
													I training ( ) marshe		IAM	NIGACI		
	Enter Sample	Enter Sample	Enter Sample	teck	Sample 2	<ul> <li>Semple 3</li> </ul>	Enter Sumple	Enter Sample	Enter Sample	Enter Sample	Enter Serup			•				
oritive control	Positive control	Positive control	Positive control	Positive control	Positive control	Positive control	Positive control	Positive control	Positive control	Positive control	Positive contro		Lindneri	•	FAM	NFQ-M08		
epsphera	Megasphaera	Megaspheers	Megaphaera	Megospheers	Megasphaera	Megasphaera	Megasphoeta	Megasphaera	Megasphaera	Megaphaera	Mepophaera		Magazphaora	•	W0	NFQ-MOB		
													Poctrietos	•	W0	NFO MOB		
													Pedicoscous	•	EAM.	NFG-MG8		
													Fostive control		TAM	NFG-MG8		
													0.0. var. destations		VID.	NFO MOD		

- After all positions are activated, samples' names can be changed according to your real sample names
  - Click on "Sample 1" in the right table and enter the name of your sample (here for example "tank")
  - Repeat re-naming for all samples
  - New sample names will appear automatically in the positions as selected before for the different sample numbers

-



RUN 4 EVERYONE DETECTION KIT 2305-61 BEER SPOILERS TYPING ON QUANT STUDIO PLUS-MINUS SOFTWARE

DA	Plate Galle	cy 30 2305.	61 BeerSpoiling	Bartaria-Vaasta	Typing QS1 200	d plus-minus ad		Outogr a re	nalysis Software 2.7.0									@Help +	•
		-		Dasteria+reasts	_ryping_co1_200	a pas-minaster													
ł.	n Method Plat	Run Su	immary							$\sim$								L	Action
855	ive Reference	POX											Sampl	es (12) Biogroup	0				
	egative con	2 Negative con	3 Negative con	4	5 Neostine.con	6 Necestive con	7 Dispation con	8	2 Nanostina con	10 Negative con	11 Negative con	12		Name@	Color	Type4	Quantity@	Biogroup	
2		Inhibition contr	Inhibition contr			Inhibition contr		- · /			Inhibition contr	N		Negative control	•	Negative Control			
1	Inhibition *	Inhibition contr	Inhibition contr		Inhibition contr		Inhibition contr				Inhibition contr			tank	•	Unknown			
		Criter Sample	Criter Sample	Color Sample	• tank	Sample 2	Sample 3	0		Criter Sample	Criter Sample			Bample 2	•	Unknown			
	Librevia	Lbrevis	Libravia	Librevis	Lbrevis	Lbrevis	Libravia	Lines	Libravia	Librevia	Librevia	Lbravis		Sample 3	•	Urknown			
					1			1						Bample 4	•	Urknown			
	Eriter Sample	Enter Sample	Cinter Sample	Enter Sampla	🗲 tank	Sample 2	Sample 3	Coter Dampie	Criter Sample	🔵 Enter Sample	Enter Sample	Color Samp	0	Dampie 6	•	Uninown			
	Lindneri	Llindneri	Llindneri	Llindneri	Lindneri	Llindneri	Llindneri	Jindneri	Llindneri	Llindneri	Llindneri	Llindneri		Sample 6	•	Unknown			
	Pectinatus	Pectinatus	Pectinatus	Pectinatus	Pedinatus	Pectinatus	Pectinatus	Pectinatus	Pectinatus	Pectinetus	Pectinatus	Pectinatus	L.	Sample 7	•	Uriknown			
	Enter Sample	Criter Sample	Enter Sample	Enter Sample	tink	Sample 2	<ul> <li>Sample 3</li> </ul>	Ditter Sample	Enter Sample	Enter Sample	Cinter Sample	Enter Samp		Sample 8	•	Urknown			
	Pediococcus	Pediococcus	Pediococcus	Pediococcus	Periococcus	Pediococcus	Pediococous	Pediococcus	Pediococcus	Pediococcus	Pediococous	Pediocoocus		Sample 9	•	Uriknown			
														Sample 10		Uriknown			
			Erster Sample		• tesk	Sample 2	<ul> <li>Sample 3</li> </ul>				<ul> <li>Center Sarrple</li> </ul>			Sanule 11		Uriknown			
	Lfrigidus + Lro Dekkers sp.	Lifrigidus + Liro Dekkera sp.	Lifrigidus + Lro Dekkera sp.	Lifigidus + Lro Dekkera sp.	Langidus + L.ro Dekkera sp.	L/rigidus + Lro Dekkera sp.	Lifrigidus + L.ro Dekkera sp.	L/rigidus + Lro Dekkera sp.	Lfrigidus + Lro Dekkera sp.	L/rigidus + L/o Dekkera sp.	Lfrigidus + L.ro Dekkera sp.	Lfrigidus + Lr Dekkera sp.		s (13) Respects S					
					tank	Sample 2	Sample 3	Enter Sample					1	Tarpet®	Color	Reporter®	Quencher®	Tank	
	L. Snoler Group	L. Sopler Group	L. Spoiler Group	L. Scoler Group	L. Spoiler Group	L. Snoler Group	L. Spoiler Group	L Spoiler Group	L. Sopler Group	L. Sonier Group	L. Spoiler Group	L. Snoiler Grou		Dekkera sp.	Uceor	VIC	NFQ-M08	Lask .	
	S.c.var. diastati	S.c.var. diestati	S.c.var. diastati	S.c.var. diastati	S.c.var. diastati	S.c.var. diastati	S.c.var. diastati	S. var. clastati	S.c.var. diastati	S.c.var. diastati	S.c.var. diastati	S.c.var. clasta		inhibition control reg		TAM .	NPO-MOR		
	Criter Sample	Criter Dample	Ciriler Surrplu	Color Damph	🔵 tænk	Sample 2	Sample 3	Cover Sample	Ceter Sample	Cotor Sample	Ceter Sample	· Conter Sarah			•				
	L.backii + L.ace	Libeckii + Liece	L.backi + L.ace	Libeckii + Lare	Lbacki + Lace	L.beckii + L.ece	Lbacki + Lace	Libecki + Liace	Lbacki + Lace	L.becki + L.ece	L.backii + L.aoe	Lbecki - Lac		inhibition control pos	•	VIC	NFQ-MG8		
١														L. Spoler Group	•	EAM	NFQ-M08		
	orer Sample	Enter Sample	Enter Sample	O Col Sample	tank	Sample 2	Sample 3	Enter Same	Enter Sample	Enter Sample	Enter Sample	• for some		.backi + Lacetotol	•	EAM	NFQ-M38		
	Positive control		Positive control	Ensitive control	Positive control	Positive control	Positive control			Positive control	Positive control	Positive control		Lbrevia	•	FAM	NFQ-M38	•	
	Megasphael	Megasphaera	Megasphaera	Megasphaera	Megasphaera	Megasphaera	Megasphaera	Megasphaera	Negasphaera	Megasphaera	Megasphaera	Megasphaera		Lingidus - Lirossiae	•	EAM	NFQ-M38	•	
		$\sim$									/			Llindneri	•	FAM	NFQ-M38	•	
										$\sim$				Meganphaera	٠	VIC	NFQ-M08	•	
														Pectnatus	٠	VIC	NPQ-MOS	•	
														Pediococcus		FAM	NFQ-MGB		

- IMPORTANT: You have to inactivate all positions which are not in use by your samples, including the empty edge tubes (if these are included)
  - o Select all fields which are not in use
  - Take care to include all positions from A down to H as some rows might be out of vision in your actual view

							Design & Ar	alysis Software 2.7.0										
Plate Ga	ilery » 2305-	61_BeerSpoiling_	Bacteria+Yeasts	Typing_QS1_200	ul_plus-minus.ed												OHep -	O Syste
n Method P	late Setup 📍 Run	Summary																Actions
ive Reference	ROX								Q,	10036 🔍 🐂 📰	= o	Samp	les (13) Biogroup	0				+
1	2	3	4	5	6	7	8	9	10	11	12		Named	Color	Troet	Quantity®		
Negative c	Negative c 0	Negative c 9	Negative c 0	Negative con	Negative con	Negative con	🔇 Negative c 🖲	O Negative c	Negative c 9	() Negative c 9	Negative *					Quantity®	Biogroup	
Inhibit ×	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition or		Negative control	•	Negative Control			8
Inhibition ×	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition or		tank	•	Unknown			۲
Dekkera •	Dekkera sp.	Dekkera sp.	Dekkera sp.				Dekkera sp.	Dekkera sp.	Dekkera sp.	Dekkera sp.	Dekkera sp		Sample 2	•	Unknown			۲
L. Spoller	L. Spoiler Group	L. Spoler Group	L. Spoiler Group				L. Spoiler Group	L. Spoiler Group	L. Spoiler Group	L. Spoiler Group	L. Spoler G		Sample 3		Unknown			۲
L.backii	L.backi + L.ace	Lbacki + Laos	L.backi + L.ace						. L.backi + L.aoe		L.backii + L			•				
L.brevis ×	Librevis	Librevis	Librevis				Librevis	Lbrevis	Librevis	Lbrevis	Librevis		Sample 4	•	Unknown			۲
L/vigidus ×	L.frigidus + L.ro	L.frigidus + L.ro	L.frigidus + L.ro						Lfrigidus + Lro	L.frigidus + L.ro	Lifrigidus +		Sample 5	•	Unknown			۲
Llindneri ×	Llindneri	Llindneri	Llindheri				Llindneri	Llindneri	L.lindneri	Llindneri	Llindneri		Sample 6		Unknown			
Megarph ×	Megasphaera Pectinatus	Megasphaera Pectinatus	Megasphaera Pectinatus				Megasphaera Pectinetus	Megasphaera Pectinatus	Megasphaera Pectinatus	Megasphaera Pectinatus	Megasphax Pectinatus		Barrole 7		Unknown			
Pectinatus *	Pediococcus	Pediococcus	Pediococcus				Pediococcus	Pediococcus	Pediococcus	Pediococcus	Pediococcs		Dangre /	•	Unknown			8
Pediococ	Positive control	Positive control	Positive control				Positive control	Positive control	Positive control	Positive control	Positive cor		Sample 8	•	Unknown			8
Positive	S.c.var. ckastati	S.c.var. diastati	S.c.var. diastati				S.c.var. diastati	S.c.var. diastati	S.c.var. diastati	S.c.var. diastati	S.c.var. day		Sample 9	•	Unknown			۲
S.c.ver. d ×													Sample 10		Unknown			
🕽 Enter Sam 🖣	C Enter Sern O	Cater Sam 0	Carter Dann 0	🔵 tanik	Sample 2	<ul> <li>Sample 3</li> </ul>	Cater Dam 0	😑 Enter Sam 4	Color Sam 0	😑 Ertter Sam 🔍	Criter Sar							
brevin	Lbrevia	Libravia	Lbrevia	Librevia	Lbrevin	Lbrevia	Libravia	Lbravia	Librevin	Lbrevin	Lbrevia		Sample 11		Unknown			
Dekkera sp.	Dakkara sp.	Dekkera sp.	Dekkera sp.				Dekkera sp.	Dekkera sp.	Dekkera sp.	Dakkara sp.	Dekkera sp	Targe	ts (12) Reagants (	8				+
Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr				Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition 🕐		Tarpet®	Color	Dentert	Quencher#	Tesk	
rhibition contr	. Inhibition contr	Inhibition contr	Inhibition contr				Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition or			_				_
Spoiler Group	L. Spoiler Group	L. Spoller Group	L. Spoiler Group				L. Spoiler Group	L. Spoiler Group	L. Spoiler Group	L. Spoiler Group	L. Spoller G		Dekkens sp.	•	VIC	NFQ-M08	•	
.backii + L.ace.			Libecki + Lace						Lbacki + Lace	L.becki + L.ace		2	Inhibition control rwg	•	EAM	NFQ-M08		
./rigidus + L.m.	Lfrigidus + L.ro	Litrigidus + L.ro					Litigidus + L.ro	L.frigidus + L.ro	Ltigidus + L.m	L.frigidus + L.ro	Lifrigidus +		Inhibition control pos		VIC	NFO-MGB		
Jindneri	Llindneri	Llindneri	Llindheri				Llindneri	Llindneri	Llindneri	Llindheri	Llindneri							
fegasphaera	Megasphoera	Megasphaera	Megasphaera				Megasphaera	Megaspheera	Megasphaera	Megasphaera	Megasphae		L. Spaller Group	•	DAM	NFQ-MG8		
lectinatus	Pectinatus	Pectinatus	Pectinatus				Pectinatus	Pectinatus	Pectinatus Pediococcus	Pectinatus	Pectinatus		Lbacki + Lacetotol	٠	EAM	NFQ-MG8		
ediococcus ositive control	Pediococcus Positive control	Pediococcus Positive control	Pediococcus Positive control				Pediococcus Positive control	Pediococcus Positive control	Pedioceccus Positive control	Pediococcus Positive control	Pediococcs Positive cor		Libravia	•	FAM	NFO-M08		
c vas diastati		S.c.var. diastati	S.c.vec diastati				S.c.var. diantati	S.c.vn. diastati		S.c.vm. diastati	Scure day		Lifigidus = Lrossiae		FAM	NFO-MGR		
				-	-	-								•				
Enter Sam	🕒 🖨 Enter Sam 🛈	🔘 Enter Sam 🌒	Cinter Sam 0	🔵 tanik	Sample 2	<ul> <li>Sample 3</li> </ul>	Coter Sam 0	Criter Sam	Cotor Sam •	Enter Sam	Enter Sar		Lindreri	•	FAM	NFQ-M08	•	
Jindheri	Llindneri	Llindheri	Llindneri	Lindneri	Llindneri	Lindseri	Llindneri	Llindneri	Llindneri	L.lindneri	Llindneri		Megasphaera	•	VIC	NFQ-M08	•	
<b>Vectinatus</b>	Pectinatus	Pectinatus	Pectinatus	Pectinatus	Pectinatus	Pectinatus	Pectinetus	Pectinatus	Pectinatus	Pectinatus	Pectinatus		Pectratus	•	VIC	NFQ-M08	•	
Jekkera sp.	Dekkera sp.	Dekkera sp.	Dekkera sp.				Dekkera sp.	Dekkera sp.	Dekkera sp.	Dekkera sp.	Dekkera sp	1.		1				
Inhibition contr	. Inhibition contr	Inhibition contr	Inhibition contr				Inhibition contr	Inhibition contr	Inhibition contr	Inhibition contr	Inhibition or .	<b>~</b>	Pediococous	•	EAM	NFQ-MGB		

- Tick "Target" (top selection) before the next step, this will activate ALL targets



RUN 4 EVERYONE DETECTION KIT 2305-61 BEER SPOILERS TYPING ON QUANT STUDIO PLUS-MINUS SOFTWARE

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		Contor Sample			tarik	Semple 2	Sample 3							Pediocecus	<ul> <li>FAM</li> </ul>	NFO-MOR		

- Then remove all checkmarks for all targets by clicking on the top checkmark "Target" again
- All fields which are not in use are empty now

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51			•										Sam	ples (13) Biogroup	(1)		Open hile in f	New Window	
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														S.c.var. diastaticus		VIC	NFQ-MGB	Unknown	

- After all samples positions are filled and the unused positions of the plate are empty, save your plate file
  - o click on "Actions"
  - then click on "Save As...", and type a unique name for the run into the field "File Name"

RUN 4 EVERYONE DETECTION KIT 2305-61 BEER SPOILERS TYPING ON QUANT STUDIO PLUS-MINUS SOFTWARE



	Save As	×
File Name Folder	YearMonthDay_2305-61_BeerSpoiling_Bacteria+Yea D:\PIKA-Files\My-Plates Browse ced Settings	c
	Cancel	ive

- We recommend to save the file with a name starting with the year, month, day, followed by the name of the test, as they will always be sorted accordingly
- Make sure that the folder path which is displayed is correct as shown above above; if not, then browse to the folder "My-Plates"
- Click on "Save"

Please make sure now that your laptop is connected to your QuantStudio with the blue cable. The laptop must remain powered on when you start the run on QuantStudio, so the saved data file can be automatically transferred to the thermocycler.

All steps as described are available on video PIKA-Video-o4.

RUN 4EVERYONE DETECTION KIT 2305-61 BEER SPOILERS TYPING ON QUANT STUDIO PLUS-MINUS SOFTWARE



#### Section 3

# Run Your Samples on QuantStudio

- Switch on the QuantStudio instrument by pressing the power button in the back
- Log in as INSTR-USER, password is 2024
- Click "Load Experiment"
- Click "Network Drive"
  - o 3 folders (My-Plates/, PIKA-Plates/, QS1Data/) are displayed
- Select the folder "My-Plates/"
  - Now you see all runs which you had saved so far
- Click on the file with the run you want to start, for example here "YearMonthDay\_2301-Screening.edt"
- Now there are three tabs shown on the screen, click on "Plate"
  - The positioning of the preselected samples and controls is shown on display now
- Open the drawer of the instrument, be careful that you generally shouldn't leave the drawer open longer than necessary to avoid contamination of the thermocycler block by dust
- Place the PCR strips into the positions as shown on the display
  - Check that the PCR strips are inserted correctly and are tightly closed
  - If not using a full plate, you should always insert one full empty breakable tube strip (closed with a matching cap strip or PCR foil – same as you use for the samples) into each of the edge rows 1 (positions A-H) and 12 (positions A-H) of the thermoblock. This allows better pressure distribution of the heated lid during the measuring process
- IMPORTANT NOTICE:
  - NEVER use the cover foil for PCR which is mounted on the plates with oligomix when these are delivered in the kit. This foil is NOT temperature proof and will melt when used in the thermocycler!
  - Melting of the foil will cause irreversible damage to the thermocycler optics and ruin the instrument.
- Do not make any changes of names or positions on the Quant Studio screen, always use the software and data on the laptop to make changes
- Close the drawer
- Click on "Start Run"
  - o Now the run starts automatically
  - After a short time, the display shows the time remaining until the run will finish
- Data collection and read out of results
  - The data from the QuantStudio will be automatically transmitted to the laptop as soon as the run has finished if a connection to the laptop is available
- After the run has finished, click on button "Done" and switch off the Quant Studio instrument.

*Optional*: It is not mandatory to have the laptop connected to the QuantStudio after the run has started as all data are always saved on the QuantStudio instrument.

#### RUN 4EVERYONE DETECTION KIT 2305-61 BEER SPOILERS TYPING ON QUANT STUDIO PLUS-MINUS SOFTWARE



If QuantStudio was not connected with the laptop when the run ends, you'll receive an alert message "Failed to transfer the file to Network drive" on the display of your QuantStudio and have to transfer the data file manually as follows:

- Click on "Transfer File" in the center of the circle
- A new window "Select Destination" opens
- Scroll down to Network and click on icon "Network"
- Click on "Destination" in the field next to "Network" (If you see a "/" then the connection between QuantStudio and the laptop is established, Status: Connected)
- In the new screen "Network" you see three folders (My-Plates/, PIKA-Plates/, QS1Data/), click on "QS1Data"
- The "/QS1Data/" folder opens now
- Click on"OK"
- This will bring you back again to the "Select Destination" window showing the path "/QS1Data/"
- Click on "Transfer" to complete the transfer of the data file to the laptop
- The transfer is completed once you see the message "Transfer Complete" on the screen
- Click on "Done"
- Now you can switch off the QuantStudio instrument
- Read out the results on the laptop