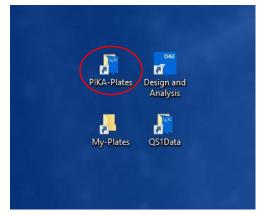


# RUN 4EVERYONE DETECTION KIT 2305-61 BEER SPOILERS TYPING ON QUANTSTUDIO PLUS-MINUS SOFTWARE

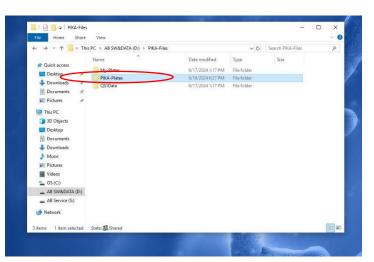
#### Section 1

# 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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PIKA WEIHENSTEPHAN GmbH Raiffeisenstrasse 31A 85276 Pfaffenhofen GERMANY www.pika-weihenstephan.com Phone +49 8441 879 48 30 Fax +49 8441 879 48 31 info@pika-weihenstephan.de

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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| GAP.Bete       Design and Analysis         y-Plates       GS1Data | Point access       Desktop         Downloads       2301-38_LP-Screening_Q51_200Lplus         Downloads       2301-40_Anerobe-Screening_Q51_200         Dournents       2301-41_Megasphaera-Screening_Q51_200         Pictures       2301-41_Megasphaera-Screening_Q51_200         This PC       2302-40_Dekkera-Screening_Q51_200         Dournents       2302-40_Superimetrations-Screening_Q51_200         This PC       2302-40_Superimetrations-Screening_Q51_200         Dournents       5/10/2024 7:32 PM         Dournents       5/13/2024 8:25 PM         Dournents       5/13/2024 8:25 PM         Dournents       5/13/2024 8:25 PM         Macic <t< td=""><td>file<br/>file<br/>file<br/>file<br/>file<br/>file</td></t<> | file<br>file<br>file<br>file<br>file<br>file |
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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

| Plate Cal      | lery 3 2305        | di Bastipolog        | Bartaria-Venata  | Typing OS1 200                  | of planning at  |                  |                                  |                 |                       |                        |                                 |  |            |                             |                |       | 344.v.1 | 45 |
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|                | Witness .          | Witness Transmission | Witness Street,  |                                 |   | Winstein,        |                                  |                 |                       |                        | Many Astrony                    | - 10 Mile 10   |            | 140                         | <b>WWWB</b>    |       |         |    |
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|                |                    |                      |  |                                 |   |                  |                                  |                 |                       |                        |                                 | C. Linear Line   |            | -                           | VIOL           |       |         |    |
|                |                    |                      |  |                                 |   |                  |                                  |                 |                       |                        |                                 | - Line   |            | 140                         | ww.ina         |       |         |    |
|                |                    |                      |  |                                 |   |                  |                                  |                 |                       |                        |                                 | LP20A.L  |            | -                           | THEFT          |       |         |    |
|                |                    |                      |  |                                 |   |                  |                                  |                 |                       |                        |                                 |  | -          |                             |                |       |         |    |
|                |                    |                      |  |                                 |   |                  |                                  |                 |                       |                        |                                 |  |            |                             | <b>VU108</b>   |       |         |    |
|                |                    |                      |  |                                 |   |                  |                                  |                 |                       |                        |                                 | - Carel  |            | . 41                        | 411108         |       |         |    |
|                |                    |                      |  |                                 |   |                  |                                  |                 |                       |                        |                                 | Patri  | •          | - 10                        | 45-958         |       |         |    |
|                |                    |                      |  |                                 |   |                  |                                  |                 |                       |                        |                                 | - Patron   | •          | 1987                        | Volta          |       |         |    |
|                |                    |                      |  |                                 |   |                  |                                  |                 |                       |                        |                                 | - Public   |            | 10                          | 1912 (1918)    |       |         |    |
|                |                    |                      |  |                                 |   |                  |                                  |                 |                       |                        |                                 |  | 2011 L     | - 10                        | YUTE           |       |         |    |

- 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

| But | Method Hat          | e Setup Hurt St               | mn37                    |                      |  |                              |                        |                      |                        |                       |                       |                           |          |                    |       |                |            |         | Acto  |
|-----|---------------------|-------------------------------|-------------------------|----------------------|--|------------------------------|------------------------|----------------------|------------------------|-----------------------|-----------------------|---------------------------|----------|--------------------|-------|----------------|------------|---------|-------|
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| 9   |                     | @ Drive Concili               | @Creellings             | Bowshare             | Cater Constant   | (Cherthingson)               | O DAY GALLEY           | @ Dest daryet:       | @ Oney Dations         | @ Distance            | Oter Andre            | @Den Sanpo                |          | Batch 2            | •     | (bitrass       |            |         |       |
| 1   | brevis.             | Litrevis                      | Lowing                  | Lbevis               | Libraria   | Linexo                       | CONTRACTOR             | Librarya             | Linevis                | Lbrevis               | Lowis                 | Liness                    |          | SwickA             | •     |                |            |         |       |
|     |                     |                               |                         |                      |  |                              |                        |                      |                        |                       |                       |                           |          | Barris 4           |       | Uriy sea       |            |         |       |
|     |                     | @ forte longin                | O'lere Lerete           |                      | @ felse Sarida   | O frite Termin               | @frie fieren           | Citie Serve          | Q Trie Lends           | China Streets         | Otre Leven            | Chine Sample              |          | Servie 5           |       | liticow        |            |         |       |
|     | Andree<br>colorates | Landows<br>Restinguis         | Receiverus              | Lindown<br>Poctostus | Elindren<br>Forsinztus   | Residented Residentiation    | Lundsen<br>Pectitistus | Linden<br>Potretuis  | Lindown<br>Footnatus   | Lindown<br>Rectinguis | I Jecken<br>Postietio | Linchen<br>Pottenus       |          | Sample 8           |       | Union          |            |         |       |
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| 1   | od ec se ces        | Podiacoocus                   | Pediocoseus             | Peciececcus          | Pediococcus  | Red becoden                  | Pediacosous            | Peckeesous           | Podioceccus            | Podiococcus           | Podiocosous           | Peciesesses               |          | Same a P           |       | literet        |            |         |       |
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|     | civer destation     | Did var distail               |                         | G.o.var. diastat     |  | S.e.ver dastas               |                        | G.s.vor.diastat      |                        |                       | B. 6. VOX. CIGCODE    |                           |          |                    |       |                |            |         |       |
|     |                     | Chine Company                 | Contra Densela          | Contra Contra de     | Bitster Davide   | Contrast Transport           | Channel Tanners        | O'ren Carson         | C Life Tarres          | C Labor Line and      | O I have There a      | Contraction in the second | le       | Desparts (         | 0     |                |            |         |       |
|     |                     | Libecki i Laco                |                         |                      |  |                              | Lbook Lass.            |                      |                        |                       |                       |                           |          |                    |       |                |            |         |       |
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| 1,  | uniter control      | Pasilowacologi                | Positive control        | Particle control     | Puetto control   | Positive portrai             | Positive control       | Paster cause         | Paneline sources       | Positive permit       | Positive car trul     | Paston control            |          | Appendiate vela    | ٠     | 1986           | 2.010.00   |         |       |
|     | wgarpharm.          | Megazphare                    | Vegargenera             | Megarohieca          | Megaschares  | Wegesphases.                 | Magazphawa             | Megasphaeca          | Megascheen             | Wegaspine a           | Meganphreca           | Megasphawa                |          | 110031-0007-000    | •     | W2             | 19-0 1018  |         |       |
|     |                     |                               |                         |                      |  |                              |                        |                      |                        |                       |                       |                           |          | 1 Basin Scorp      | ٠     | DOV            | 100-008    |         |       |
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|     |                     |                               |                         |                      |  |                              |                        |                      |                        |                       |                       |                           |          | , indexe           |       | FOR            | 99768      |         |       |
|     |                     |                               |                         |                      |  |                              |                        |                      |                        |                       |                       |                           |          | Monadara           |       | 02             | 140.05R    |         |       |
|     |                     |                               |                         |                      |  |                              |                        |                      |                        |                       |                       |                           |          | Decima             |       | ice .          | NO-VCR     |         |       |
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|     |                     |                               |                         |                      |  |                              |                        |                      |                        |                       |                       |                           |          | l'edecoccut        | •     | 192            | A-G-VICB   |         |       |
|     |                     |                               |                         |                      |  |                              |                        |                      |                        |                       |                       |                           |          | Period started     |       | +92            | 1521088    |         |       |
|     |                     |                               |                         |                      |  |                              |                        |                      |                        |                       |                       |                           |          | Gene: diamateur    |       | 25             | N G-UEB    |         |       |

| DA | Plete Gali                      | ary » 2306-                     | 61 BeerSpoiling                  | Becteria+Yeasts                 | Typing QS1 200                   | ul plus-minus.ed                 | t i                              |                                 |                      |                                 |                                 |                                 |                         |       |                  |           | @ilen -  | O the   |
|----|---------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------|-------|------------------|-----------|----------|---------|
|    | n Nethod Pla                    | te Setup Run Si                 | unnery                           |                                 |                                  |                                  |                                  |                                 |                      |                                 |                                 |                                 |                         |       |                  |           |          | Actions |
|    | tive Faterance                  | nax .                           | •                                |                                 |                                  |                                  |                                  |                                 |                      | Q.                              | 10051 Q. W. III                 | = • ~                           | Savelins (17) Biogroup  | 0     |                  |           |          | +       |
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|    | Loren                           | Lbrevis                         | Librevia                         | Lbrevis                         | Ltrevis + +                      | Lures                            | Lboys                            | Lizwis                          | Lbrevis              | Lbrevie                         | Libroits                        | Lizenie                         | Sample 8                |       | Universit        |           |          |         |
|    |                                 |                                 |                                  |                                 |                                  |                                  |                                  |                                 |                      |                                 |                                 |                                 | Bargle 4                |       | Unicove          |           |          |         |
|    | Constraints                     | Correction play                 | Office Service                   | O Para Second                   |                                  | O Free Contrin                   | O Frite Service                  | O Ener Januari                  | Ess Propie.          | @ Front Perceler                | Train Section                   | Officer June                    | Danak d                 |       | University       |           |          |         |
|    | Lindner                         | Lindnen                         | Llindneri                        | Lindnen                         | Llindher                         | Linderri                         | Lindren                          | Lindson                         | Lindren              | Lindner                         | L,Indneri                       | Lindhen                         | Dangle 6                |       | Unicoun:         |           |          |         |
|    | Pectinelus                      | Pectnetus                       | Pectinatus                       | Pectnetus                       | Pectratus                        | Pectinetus                       | Pectinatus                       | Pectinatus                      | Pectinatus           | Pectinatus                      | Pectinature                     | Pectnetus                       | Sangle 7                |       | Unizoun          |           |          |         |
|    | Contention (Secondar)           | C Date Decipie                  | Øffeter feargen                  | Office Streets                  | @freedomin                       | Office imple                     | O Fale Neight                    | Constraints                     | (Concernent)         | (Character)                     | O Trans Savaria                 | O Tree James                    | D Dangie II             |       | Unicasa          |           |          |         |
|    | Pedipopoeus                     | Pedioceocus                     | Pediococcus                      | Pediecoccus                     | Pediococous                      | Peciesoccus                      | Pedioceccus                      | Peciecoccus                     | Pedioceccus          | Pediococcus                     | Pedicoscus                      | Pediococcus                     | Danula 9                |       | Unineum          |           |          |         |
|    |                                 |                                 |                                  |                                 |                                  |                                  |                                  |                                 |                      |                                 |                                 |                                 | Sample 10               |       | University       |           |          |         |
|    |                                 | C There Technic                 |                                  |                                 |                                  |                                  |                                  |                                 |                      | O Treix Decide                  |                                 |                                 | Sample 11               |       | Hermon           |           |          |         |
|    | Lifterdus - Liro<br>Dekkera sp. | Dekkera sp.                     | Lifngidus II Liro<br>Dekkera so. | Lingidus i Lito<br>Dekkerarp    | Litrigidus - Lito<br>Dekkosa so. | Deikero so.                      | Lifrigidus i Liro<br>Dekkera sp. | Deixera sp.                     | Dekkera so           | Liftgidus - Liro<br>Dekkera sp. | Lingidus i Lire<br>Dekkeralsp   | Lifrigidas I Li<br>Dekkera so.  | Inspets (13) Respecto ( | 9     |                  |           |          |         |
|    | Constants                       | Const Caragola                  | Øffnter fürrgirt                 | Greenen                         |                                  | O Tetre 2 main                   | Crise Zargin                     | C Eries Dierente                | Constantion          | Circles Complex"                | O Tree Garger                   | Cree Lens                       | Tarpst#                 | Color | Property:        | Quencher® | Tents    |         |
|    | L. Gporer Group                 | L. Goolor Group                 | L. Gooler Group                  | L Goold Group                   | L. Geolor Group                  | L. Spole Group                   | L. Gooler Group                  | L. Spoller Group                | L Spoller Group      | L. Speller Group                | L. Sporter Group                | L. Spoller Gro                  | United to               | Color | WE:              | N CANCEL  | Taux .   |         |
|    | S.c.var. diastat                | S.s.vat diastati                | S.c.var. diastan                 | S.c.var. diostati               | S.c.var. diastati                | S.c.var. elastab                 | S.c.var. diastab                 | S.c.var. diastati               | S.o.var. clastati    | S.c.var. diastati               | S.c.ver. diestati               | S.s.var. diasta                 | Inhibition control sec  |       | FEM              | NEO-MOR   |          |         |
|    | Crew Dotale                     | Conce Sample                    | Ø free fampit                    | O Level Second                  | @ Crise Sireptor                 | @ Letter bergin                  | Coler Garagia                    | Conse Lineate                   | Cone Derow           | Crim Danais                     | Crew Several                    | @ Orientiente                   | Introduce cantol pos    | -     | VIC              | NEOLMOR   |          |         |
|    | Libacki i Liace                 | Libecki / Liaco                 | Libackii + Liboe                 | Libeola: + Laco                 | Libecki i Lace                   | Libaolu + Liace                  | Libecki + Laco                   | Libacka + Libce                 | Libacki - Liaco      | Libacki i Lioce                 | Libasia - Liaco                 | Liberiol / Line                 | L. Soulo Group          |       | TAL NO.          | NPO MSR   |          |         |
|    |                                 |                                 |                                  |                                 |                                  |                                  |                                  |                                 |                      |                                 |                                 |                                 |                         |       |                  |           |          |         |
|    | Constraints (                   | Const Simple                    | @itmectarepit:                   | O Creative and                  | Crise Linitial                   | Office the second                | @ Cree Seron                     | Const Singuin                   | Const Dentin         | @ Steine Darraite               | @ Letter Dariess                | Crew Parts                      | Libechi + Laoriolul     | •     | P/GI             | NFO M38   |          |         |
|    | Positive control<br>Megasphaera | Pesitive control<br>Mecasohaera | Positive control<br>Mesasphaora  | Positiva control<br>Mecaschaera | Positive control<br>Megasonaora  | Politivo control<br>Mosacofiaera | Positive control<br>Mocasohatra  | Positive control<br>Mesasphaera | Positive control     | Positive control<br>Megasphacea | Positive control<br>Mosasphaera | Positive control<br>Modeschoorg | Lbrevis                 | •     | teu              | NFQ-MG8   |          |         |
|    | Mogosphaera                     | Wegasphaera                     | Megasphaoia                      | Megasphaera                     | Megasonoora                      | ogasprasia.                      | wogasphaera                      | Hicgasphacea                    | Megasphaara          | Megasphaera                     | Megasphaera                     | Wegasanaera                     | Lingdas - Liossea       | •     | R/M.             | NFO MSB   |          |         |
|    |                                 |                                 |                                  |                                 | $\overline{}$                    |                                  |                                  |                                 |                      |                                 |                                 |                                 | Lieden                  | •     | RIM.             | NFO MSB   |          |         |
|    |                                 |                                 |                                  |                                 | $\sim$                           |                                  |                                  |                                 |                      |                                 |                                 |                                 | Megasphaera             | ۰     | WO               | NFO-MOD   |          |         |
|    |                                 |                                 |                                  |                                 |                                  |                                  |                                  |                                 |                      |                                 |                                 |                                 | Periodus                | •     | VIC.             | N CAMER   |          |         |
|    |                                 |                                 |                                  |                                 |                                  |                                  |                                  |                                 |                      |                                 |                                 |                                 | Pediococcus             | ٠     | (44)             | NEQ-MOR   |          |         |

- 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

| •  | Plate Galle     | ery >> 2305-     | 61_BeerSpoiling     | Bacteria+Yeasts    | Typing_Q61_200   | ul_plus-minus.ed  |                   |                   |                   |                     |                   |                 |      |                         |       |                 |           | () Help + | <b>O</b> Sys |
|----|-----------------|------------------|---------------------|--------------------|------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-----------------|------|-------------------------|-------|-----------------|-----------|-----------|--------------|
| a) | Method Plat     | te Setup Run Si  | ammany              |                    |                  |                   |                   |                   |                   |                     |                   |                 |      |                         |       |                 |           |           | letions      |
|    | e Reference     | 80K -            |                     |                    |                  |                   |                   |                   |                   | Q,                  | 1016 Q 4, 11      | = ¢ -           | here | des (13) Biograph       | a)    |                 |           |           | .+           |
|    | 1               | 2                | 3.                  | 4                  | 5                | 6                 | t                 | 8                 |                   | 10                  | 31                | 12              |      | Namel                   | Color | Ter4            | Quentity4 | Bearsup   | 6            |
| 0  | Negative con    | O Negative con   | O Negative con      | O Negative con     | O Negative con   | O Negative con    | O Negative com    | Negative con      | Negative con      | Negative con        | Negative con      | O Negative co   |      | 10                      |       | Control Control |           |           |              |
|    | hibitian contr  | inhibition contr | Inhibition contr    | infribition contr, | inhibition contr | Inhibition contr  | Inhibition contr  | Whibition contr   | brihibition contr | inhibition contr    | Infibition contr  | Whibitian cont  |      | Sample 1                |       | University      |           |           |              |
|    | hibison contr   | Inhibition contr | Inhibition contr    | Inhibition contr   | whickson contr   | Inhibition contr  | Inhibition contr  |                   | Inhibition contr  | Inhibition contr    | Inhibition contr  | Inhibition cont | ~    | Santa I                 |       | Univoluti       |           |           |              |
|    |                 | Const Company    | Control Gargers     | @ Crim Sonaki      | Sample 1         | C Day Garger      | @ Over Toropic    | O Loss Losse      | @thechops         | @ UniverSite of the | Constantion       | Constant,       |      |                         |       | a scown         |           |           |              |
| 1  | brevis          | Librevis         | Librevis            | Librevie           | Libresis * *     | Lorevis           | Librevie          | Librevis          | Lonvis            | Librevie            | Librevis          | Librevia        |      | (Sample 3               | •     | Unicown         |           |           | 1            |
|    |                 |                  |                     |                    | 1                |                   |                   |                   |                   |                     |                   |                 |      | Denple 4                | •     | Unicover        |           |           |              |
|    |                 | Ø free Servers   | (Constitution)      | @ lote lines!      | Sample 1         | Citer Second      | Ø zone hierate    | Ø (mi lange)      | Constanting and   | Ø litte New York    | () (see Service ) | Ø toor tires    |      | Sample 6                | ٠     | University      |           |           | 19           |
|    | Jendrien .      | Lindsen          | Lindneri            | Limber             | Lindren          | Lindneri          | Lindnen           | Ländnen           | Lindneri          | Lindsen             | Lindnes           | Lindneri        |      | Dample B                | •     | Unicown         |           |           |              |
| 9  | ectinatus       | Pectinatus       | Pectinatus          | Pactinatus         | Pectinatus       | Pectinatus        | Pactinatus        | Pectinatus        | Pectinetus        | Pectivatus          | Pectinatus        | Pectinatus      |      | Sample 7                | •     | Urbeever.       |           |           |              |
|    |                 | Ø free farment   | Chinese Charges     | Citer Service      | Sample 1         | Direct Company    | Cine Surple       | Circu Tarquin I   | Class Courses     | Cline Surple        | Con Longia        | () fand tieren  |      | Canada d                |       | Unineer         |           |           |              |
| 9  | adiocecous      | Pediococcus      | Pediococcus         | Padiococous        | Pediococcus      | Pedececcus        | Padiococcus       | Pediococcus       | Pediocecous       | Pediococcus         | Pediococcus       | Pediococcus     |      | Same 9                  |       | Universed       |           |           |              |
|    |                 |                  |                     |                    |                  |                   |                   |                   |                   |                     |                   |                 |      | Bensie 10               | -     | University      |           |           |              |
|    |                 | Constanting      | Contrast Contraster | Citer Server       | Sample 1         | Cites Surger      | C free Larges     | Constanting the   | Citta Corport     | Ø free Larger       | Con Laran         | Cites Serve     |      | Darmin 11               |       | University      |           |           |              |
|    | frigidus = L.m  |                  |                     | L.frigidus + L.ro  | L.Bigidus + L.ro | Lfrigidus + Lro   |                   | Lifigidus + Lro   |                   | L/rigidus + L/o     | L.frigidus + L.m  |                 |      |                         | •     | Granowi         |           |           |              |
|    | ekkers sp.      | Dekkera sp.      | Deksera sp.         | Dekkers sp.        | Dekkera sp.      | Dekkiera sp.      | Dekkera tp.       | Dekkera sp.       | Dekkerp sp.       | Dekkera sp.         | Dekkera sp.       | Dekkera op.     | Jap  | da (12) - Heagerts I    | 1     |                 |           |           | 1            |
|    |                 | O from Dampie    | Other Courses       | Constanting in     | Sample 1         | Dine Longite      | C Line Barger     | Constantia (      | Const Through     | Clinic Daught       | O Line Largest    | Other Dances    |      | Target#                 | Color | Reporter#       | Quercher# | Tank      |              |
|    | Spoller Group   | L. Spoler Group  | L. Spoiler Group    | L. Spoller Group   | L. Spoller Group | L. Spoiler Group  | L. Spoller Group  | L. Spoller Group  | L. Spoler Group   | L. Spoller Group    |                   | L. Spoler Gro   |      | Deldura ap.             |       | VIC .           | NFD-M08   |           |              |
| 5  | o.var. diastati | S.c.vec diastati | S.c.vat clastati    | S.c.var, diestali  | Sove diastati    | S.c.ver. diaeteti | S.c.var. diastati |                   | S.c.vat diestati  | S.c.vm. diastat     | S.c.var. diastati | S.c.var. diasta |      | Inhibition sorting rang |       | PAM             | 1/10-1/12 |           |              |
| 9  |                 | Ø free heren     | Distant Concession  | Ø free Decase      | Sample 1         | Contra Chargers   | Citer Corners     | @ (res larges )   | Crist Comple      | O free forum        | O free Server     | Const Corres    |      | inhibiton cortoi pos    |       | VIC             | NFO-MSE   |           |              |
| L  | backii + Lace   | Libecki + Lece   | Lbacki + Lace       | Lbecki + Lace      | Lbacki + Loon    | Libeckii + Lace   | L.becki + L.ece   | Libsoki + Lace    | Libecki) + Lace   | Lbecki + Lace       | Lbacki + Lace     | Liberio) + Lac  |      | L. Beeller Group        |       | 5MM             | NFO-MOR   |           |              |
|    |                 |                  |                     |                    |                  |                   |                   |                   |                   |                     |                   |                 |      |                         |       |                 |           |           |              |
| 0  |                 | Constants -      | Other Danges        | Clear Serger       | Sample 1         | Cities Corners    | Contractory in    | O Loren Darrade . | Constanting in    | O line haraft.      | O Dese Deraite    | O Door Date:    |      | Libackii + Liacetotol   | •     | 64M             | NFO-M08   |           |              |
| p  | oeitive control | Positive control | Positive control    | Positive control   | Positive control | Positive control  | Positive control  | Positive control  | Positive control  | Positive control    | Positive control  | Positive contra |      | Lbrevia                 | •     | PAM             | NFO-MOR   | 5         |              |
| 1  | legespheera     | Maganphasea      | Megaspheera         | Megasphaere        | Mepephaera       | Megasphaera       | Megasphaera       | Megaspheens       | Megasphaera       | Megasphaera         | Megaspheers       | Megasphaera     |      | C.Ngiduz - L.Yzentee    | •     | FAM             | 1970-MGB  |           |              |
|    |                 |                  |                     |                    |                  |                   |                   |                   |                   |                     |                   |                 |      | Länäter                 | •     | FAM             | NFO-MOR   |           |              |
|    |                 |                  |                     |                    |                  |                   |                   |                   |                   |                     |                   |                 |      | Megesphaws              | 0     | V10             | NFO-M08   |           |              |
|    |                 |                  |                     |                    |                  |                   |                   |                   |                   |                     |                   |                 |      | Pectrotue               | •     | VIC :           | NFQ-MSB   |           |              |
|    |                 |                  |                     |                    |                  |                   |                   |                   |                   |                     |                   |                 |      | Pederoccus              | -     | PAM             | NFO-MOR   |           |              |

- Tick "Sample 1" for your first sample

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



|      | >                |                  |                  |                   |                              |                  |                   | Design & Ar      | alysis Sotware 2.7.0 |                  |                   |                 |       |                        |       |                |           | -       |             |
|------|------------------|------------------|------------------|-------------------|------------------------------|------------------|-------------------|------------------|----------------------|------------------|-------------------|-----------------|-------|------------------------|-------|----------------|-----------|---------|-------------|
| 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

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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<br>Negative con                | 3<br>Negative con               | 4                              | 5<br>Neostine.con              | 6<br>Necestive con             | 7<br>Dispation con               | 8                              | 2<br>Nanostina con             | 10<br>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<br>Dekkers sp. | Lifrigidus + Liro<br>Dekkera sp. | Lifrigidus + Lro<br>Dekkera sp. | Lifigidus + Lro<br>Dekkera sp. | Langidus + L.ro<br>Dekkera sp. | L/rigidus + Lro<br>Dekkera sp. | Lifrigidus + L.ro<br>Dekkera sp. | L/rigidus + Lro<br>Dekkera sp. | Lfrigidus + Lro<br>Dekkera sp. | L/rigidus + L/o<br>Dekkera sp. | Lfrigidus + L.ro<br>Dekkera sp.    | Lfrigidus + Lr<br>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<br>Pectinatus       | Megasphaera<br>Pectinatus       | Megasphaera<br>Pectinatus       |                  |                  |                              | Megasphaera<br>Pectinetus       | Megasphaera<br>Pectinatus       | Megasphaera<br>Pectinatus       | Megasphaera<br>Pectinatus       | Megasphax<br>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<br>Pediococcus       | Pectinatus                      | Pectinatus                 |          | Lbacki + Lacetotol     | ٠     | EAM              | NFQ-MG8   |          |         |
| ediococcus<br>ositive control | Pediococcus<br>Positive control | Pediococcus<br>Positive control | Pediococcus<br>Positive control |                  |                  |                              | Pediococcus<br>Positive control | Pediococcus<br>Positive control | Pedioceccus<br>Positive control | Pediococcus<br>Positive control | Pediococcs<br>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

| >           |             |               |                  |                 |                                      |                   |                              | Leage & r                        | nalysis Software 2.7.0 |               |               |            | -  |                         |                         |            |          |         |
|-------------|-------------|---------------|------------------|-----------------|--------------------------------------|-------------------|------------------------------|----------------------------------|------------------------|---------------|---------------|------------|----|-------------------------|-------------------------|------------|----------|---------|
| PI          | late Galler | ry » 2305     | -61_BeerSpoiling | Bacteria+Yeasts | Typing_QS1_200                       | ul_plus-minus.ed  | t                            |                                  |                        |               |               |            |    |                         |                         |            | @Help +  | © Syste |
| in Metho    | d Plate     | e Setup Run S | ummary           |                 |                                      |                   |                              |                                  |                        |               |               |            |    |                         |                         |            |          | Action  |
| sive Refere |             | ROX           | •                |                 |                                      |                   |                              |                                  |                        | Q,            | 100% 🔍 🐂 📰    | - • -      | 50 | mples (12) Biogroup (0) |                         |            |          | +       |
| 1           |             | 2             | 3                |                 | 5                                    |                   |                              |                                  |                        | 10            |               | 12         |    | Name <sup>®</sup>       | Color Type®             | Quantity®  | Biogroup | ۲       |
| Negati      |             | Negative con  | Negative con     | O Negative con  |                                      |                   |                              | Negative con                     | Negative con           | Negative con  | Negative con  | Negative * |    | Negative control        | Negative Control        |            |          | 8       |
| Enter as    | ssay •      |               |                  |                 | Inhibition contr<br>Inhibition contr | Inhibition contr  |                              |                                  |                        |               |               |            |    | tark                    | Urinovn                 |            |          | G       |
|             |             |               |                  |                 |                                      |                   |                              |                                  |                        |               |               |            |    | Bample 2                | Unknown                 |            |          | 8       |
|             |             |               |                  |                 |                                      |                   |                              |                                  |                        |               |               |            |    | Bample 3                | Unknown                 |            |          | R       |
|             |             |               |                  |                 |                                      |                   |                              |                                  |                        |               |               |            |    | Sample 4                | Uninown                 |            |          | 8       |
|             |             |               |                  |                 |                                      |                   |                              |                                  |                        |               |               |            |    | Bample 5                | Unknown                 |            |          | 8       |
|             |             |               |                  |                 |                                      |                   |                              |                                  |                        |               |               |            |    | Sample 6                | Unknown                 |            |          | 6       |
|             |             |               |                  |                 |                                      |                   |                              |                                  |                        |               |               |            |    | Bangle 7                | Unknown                 |            |          |         |
|             |             |               |                  |                 |                                      |                   |                              |                                  |                        |               |               |            |    | Sample 8                | Unknown                 |            |          | 6       |
|             |             |               |                  |                 |                                      |                   |                              |                                  |                        |               |               |            |    | Sample 9                | e Uninovn               |            |          | 6       |
|             |             |               |                  |                 |                                      |                   |                              |                                  |                        |               |               |            |    | Sample 10               | Unknown                 |            |          | 0       |
|             |             | Criter Sample | Cotor Sample     | Criter Sample   | <ul> <li>tank</li> </ul>             | Sample 2          | <ul> <li>Sample 3</li> </ul> | <ul> <li>Enter Sample</li> </ul> |                        | Criter Sample |               |            |    | Dample 11               | Unknown                 |            |          | 6       |
|             |             |               |                  |                 | L.brevis                             | Lbrevia           | L.brevia                     |                                  |                        |               |               |            | Ta | geta (12) Resports (3)  |                         |            |          | +       |
| Erner 1     |             | Enter Sample  | Enter Sample     | Enter Sample    | 🔵 tarik                              | Sample 2          | Sample 3                     | Enter Sample                     | Enter Sample           | Erner Sample  | Enter Sample  | • ···· <   | 0  | Tarpet0                 | Coler Reporter®         | Querscher@ | Tank     |         |
|             |             |               |                  |                 | Llindneri                            | Llindneri         | Llindneri                    |                                  |                        |               |               |            | 0  | Dekkera sp.             | <ul> <li>vic</li> </ul> | NFQ-M08    |          |         |
|             |             |               |                  |                 | Pectinatus                           | Pectinatus        | Pectinatus                   |                                  |                        |               |               |            |    | Inhibition control neg  | e FAM                   | NFQ-M08    |          |         |
| D Eriter 3  |             | Criter Sample | Coter Sample     | Criter Sample   | 🔵 tanik                              | Sample 2          | <ul> <li>Sample 3</li> </ul> | Enter Sample                     | Criter Sample          | Criter Sample | Conter Sample | Enter Sar  |    | Inhibition control pos  | • 10                    | NFQ-M08    |          |         |
|             |             |               |                  |                 | Pediococcus                          | Pediococcus       | Pediococcus                  |                                  |                        |               |               |            |    | L. Spoler Group         | • PAM                   | NFQ-M08    |          |         |
|             |             |               |                  |                 | 🔵 tarik                              | Semple 2          | Sample 3                     |                                  |                        |               |               |            |    | Lbacki = Lacetotol      | e FAM                   | NFQ-MG8    |          |         |
|             |             |               | Con carba        | Cine campe      |                                      | Lfrigidus + Lrp   |                              |                                  |                        |               |               |            |    | Lbrevis                 | • FAM                   | NFQ-M08    |          |         |
|             |             |               |                  |                 | Dekkers sp.                          | Dekkers sp.       | Dekkers sp.                  |                                  |                        |               |               |            |    | Lfrigidus + Lrossiae    | • FAM                   | NFQ-M08    |          |         |
|             |             | Criter Sample | Cotor Sample     | Criter Sample   | • tarik                              | Sample 2          | Sample 3                     | Cinter Sample                    | Cinter Sample          | Criter Sample | Criter Sample | Criter Sar |    | Lindneri                | • FAM                   | NFQ-M08    |          |         |
|             |             |               |                  |                 | L. Spoiler Group                     | L. Spoiler Group  | L. Spoiler Group             |                                  |                        |               |               |            |    | Megasphaera             | <ul> <li>vic</li> </ul> | NFQ-M08    |          |         |
|             |             |               |                  |                 | S.c.var. diastati                    | 8.c.var. diastati | S.c.var. diastati            |                                  |                        |               |               |            |    | Pectinatus              | • 10                    | NFQ-M68    |          |         |
|             |             | 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

| n  | Method Pla        | ate Setup Run S  | ummary            |                                    |                                       |                                 |                                       |   |                |                |                           |              |      |                        |       |                  | 0.000                         | Action                             | 35      |
|----|-------------------|------------------|-------------------|------------------------------------|---------------------------------------|---------------------------------|---------------------------------------|---|----------------|----------------|---------------------------|--------------|------|------------------------|-------|------------------|-------------------------------|------------------------------------|---------|
| 51 |                   |                  | •                 |                                    |                                       |                                 |                                       |   |                |                |                           |              | Sam  | ples (13) Biogroup     | (1)   |                  | Open hile in f                | New Window                         |         |
|    | 1<br>Magazhur ago | 2                | 3<br>Negative con | 4                                  | 5                                     | 6                               | 7                                     | 8   | 9              | 10             | 11                        | 12           |      | Name®                  | Color | Type®            | Save As                       |                                    |         |
| •  | regative con      | . Wegabve con    | Vegasve con       | <ul> <li>Maßenve court.</li> </ul> |                                       |                                 |                                       | • rvegasve con  | . Weganne con  | Veganve con    | Vegauve con               | Vegasve co   |      | Negative control       | •     | Negative Control | Add to My Pt                  | ates                               |         |
|    |                   |                  |                   |                                    | Inhibition contr                      | Inhibition contr                | Inhibition contr                      |   |                |                |                           |              |      | tank                   | •     | Unknown          | Plate Informa                 |                                    |         |
|    |                   |                  |                   |                                    |                                       |                                 |                                       |   |                |                |                           |              |      | Sample 2               | •     | Unknown          | Plate informa                 |                                    |         |
|    |                   | Enter Samela     | Enter Sample      | Enter Sample                       | tank                                  | Sample 2                        | Sample 3                              | Enter Sample  | Enter Sample   | Enter Sample   | Enter Samola              | Enter Same   |      | Sample 3               | •     | Unknown          | Primary Analy<br>Drasance Alv | ysis Setting<br>sence Analysis Set | lina    |
|    |                   | Crimi Charlen    | China Chinapan    | Cum campa                          | Librevis                              | L.brevis                        | L.brevis                              | Chan Changes  | Citra Continue | Cum Campo      | Cum Cumpo                 | Crim Ourip   |      | Sample 4               |       | Unknown          |                               | from Another File                  |         |
|    |                   |                  |                   |                                    | LUNIOVIS                              | LUTEVIS                         | LUTEVIS                               |   |                |                |                           |              |      | Sample 5               |       | Unknown          | Generate Plat                 | ta Filos                           |         |
|    |                   | Enter Sample     | Enter Sample      | Enter Sample                       | tank                                  | Sample 2                        | Sample 3                              | Enter Sample  | Enter Sample   | Enter Sample   | Enter Sample              | Enter Samp   |      | Sample 6               |       | Unknown          | Guine door in                 |                                    | $\odot$ |
|    |                   |                  |                   |                                    | L.lindneri                            | Llindneri                       | L.lindneri                            |   |                |                |                           |              |      | Sample 7               |       | Unknown          |                               |                                    | 8       |
|    |                   |                  |                   |                                    | Pectinatus                            | Pectinatus                      | Pectinatus                            |   |                |                |                           |              |      | Sample 8               |       | Unknown          |                               |                                    | 8       |
|    | Entor Sample      | Enter Sample     | Enter Sample      | Enter Sample                       | tank                                  | Sample 2                        | Sample 3                              | Enter Sample  | Enter Sample   | Enter Sample   | Enter Sample              | Enter Samp   |      | Sample 9               |       | Unknown          |                               |                                    | ×<br>×  |
|    |                   |                  |                   |                                    | Pediococcus                           | Pediococcus                     | Pediococcus                           |   |                |                |                           |              |      | Sample 10              |       | Unknown          |                               |                                    |         |
|    |                   |                  |                   |                                    |                                       |                                 |                                       |   |                |                |                           |              |      |                        |       |                  |                               |                                    | 8       |
|    | Enter Sample      | Enter Sample     | Enter Sample      | Enter Sample                       | <ul> <li>tank</li> </ul>              | Sample 2                        | Sample 3                              | Enter Sample  | Enter Sample   | Enter Sample   | Enter Sample              | Enter Samp   |      | Sample 11              | •     | Unknown          |                               |                                    |         |
|    |                   |                  |                   |                                    |                                       | L.frigidus + L.ro               |                                       |   |                |                |                           |              | Targ | ets (13) Reagenta      | (0)   |                  |                               | -                                  | +       |
|    |                   |                  |                   |                                    | Dekkera sp.                           | Dekkera sp.                     | Dekkera sp.                           |   |                |                |                           |              |      | Target@                | Color | Reporter@        | Quencher®                     | Task                               |         |
|    | Enter Sample      | Enter Sample     | Enter Sample      | Enter Sample                       | <ul> <li>tank</li> </ul>              | Sample 2                        | <ul> <li>Sample 3</li> </ul>          | Enter Sample  | Enter Sample   | Enter Sample   | Enter Sample              | Enter Samp   |      | Inhibition control pos | •     | VIC              | NFQ-MGB                       |                                    |         |
|    |                   |                  |                   |                                    | L. Spoiler Group<br>S.c.var. diastati | L. Spo × •<br>S.c.var. d ×      | L. Spoiler Group<br>S.c.var. diastati |   |                |                |                           |              |      | L. Spoiler Group       | •     | FAM              | NFQ-MGB                       | Unknown                            |         |
|    |                   |                  |                   |                                    |                                       |                                 |                                       |   |                |                |                           |              |      | L.backii + L.acetotol  | •     | FAM              | NFQ-MGB                       |                                    |         |
|    |                   | Enter Sample     | Enter Sample      | Enter Sample                       | <ul> <li>tank</li> </ul>              | Sample 2                        | <ul> <li>Sample 3</li> </ul>          | Enter Sample  | Enter Sample   | Enter Sample   | Enter Sample              | Enter Samp   |      | Lbrevis                | •     | FAM              | NFQ-MGB                       |                                    |         |
|    |                   |                  |                   |                                    | L.backii + L.ace                      | L.backii + L.ace                | L.backii + L.ace                      |   |                |                |                           |              |      | L.frigidus + L.rossiae | •     | FAM              | NFQ-MGB                       |                                    |         |
|    |                   | <b>O C 1 1 1</b> | Enter Sample      | <b>A</b> for the state             | tank                                  | Sample 2                        | Sample 3                              | <b>6</b> Color <b>Color Color Col</b> | Enter Sample   | O Cara Cara In | Contraction of the second |              |      | Llindneri              | •     | FAM              | NFQ-MGB                       |                                    |         |
|    |                   | - raund, comulou | - russe pumpin    | - russ pampa                       | Positive control                      | Positive control                | Positive control                      | - russ omuba  | Curro, Samba   | - ruun cempe   | Conne Cambro              | - court Samp |      | Megasphaera            | ٠     | VIC              | NFQ-MGB                       |                                    |         |
|    |                   |                  |                   |                                    | Positive control<br>Megasphaera       | Positive control<br>Megasphaera | Positive control<br>Megasphaera       |   |                |                |                           |              |      | Pectinatus             | •     | VIC              | NFQ-MGB                       |                                    |         |
|    |                   |                  |                   |                                    |                                       |                                 |                                       |   |                |                |                           |              |      | Pediococcus            | •     | FAM              | NFQ-M08                       |                                    |         |
|    |                   |                  |                   |                                    |                                       |                                 |                                       |   |                |                |                           |              |      | Positive control       | •     | FAM              | NFQ-M08                       |                                    |         |
|    |                   |                  |                   |                                    |                                       |                                 |                                       |   |                |                |                           |              |      | 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<br>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