**Supplementary material**

**Table S1: Comparison of species ID and if applicable resistance patterns/genes following SOC workflows and BCID2**

| Study number | ID Maldi (+ if applicable resistance type/gene) | ID BCID2 (resistance determinant; if applicable) |
|--------------|-----------------------------------------------|-------------------------------------------------|
| 1            | *Streptococcus anginosus Group*               | *Streptococcus spp.*                            |
| 2            | *Streptococcus agalactiae*                    | *Streptococcus agalactiae*                      |
| 3            | *Escherichia coli*                            | *Escherichia coli*                              |
| 4            | *Klebsiella pneumoniae*                       | *Klebsiella pneumoniae Group*                   |
| 5            | *Klebsiella pneumoniae, Staphylococcus capitis* | *Klebsiella pneumoniae group*                   |
| 6            | *Enterococcus faecalis*                       | *Enterococcus faecalis, Staphylococcus spp.*    |
| 7            | *Providencia rettgeri, Staphylococcus epidermidis (mecA/C), Streptococcus agalactiae* | *Enteric bacteria, Staphylococcus epidermidis (mecA/C), Streptococcus agalactiae* |
| 8            | *Escherichia coli*                            | *Escherichia coli*                              |
| 9            | *Escherichia coli*                            | *Escherichia coli*                              |
| 10           | *Escherichia coli*                            | *Escherichia coli*                              |
| 11           | *Enterococcus faecium*                        | *Enterococcus faecium*                          |
| 12           | *Enterococcus faecalis, Staphylococcus aureus* | *Enterococcus faecalis, Staphylococcus aureus*  |
| 13           | *Escherichia coli*                            | *Escherichia coli*                              |
| 14           | *Pseudomonas aeruginosa (bla\textsubscript{VIM-2}), Stenotrophomas maltophilia* | *Pseudomonas aeruginosa (bla\textsubscript{VIM})* |
| 15           | *Escherichia coli (3GCR)*                     | *Escherichia coli (bla\textsubscript{CTX-M})*    |
|   | Strain                          | Strain                          |
|---|--------------------------------|--------------------------------|
|16 | *Streptococcus pyogenes*       | *Streptococcus pyogenes*        |
|17 | *Klebsiella pneumoniae*        | none                            |
|18 | *Streptococcus salivarius*     | *Streptococcus*                 |
|19 | *Serratia marcescens*          | *Serratia marcescens*           |
|20 | *Enterococcus faecium, Staphylococcus haemolyticus* (mecA/C) | *Enterococcus faecium, Staphylococcus epidermidis* (mecA/C) |
|21 | *Pseudomonas aeruginosa*       | *Pseudomonas aeruginosa*        |
|22 | *Streptococcus pneumoniae*     | *Streptococcus pneumoniae*      |
|23 | *Escherichia coli*             | *Escherichia coli*              |
|24 | *Escherichia coli*             | *Escherichia coli*              |
|25 | *Enterococcus faecalis*        | *Enterococcus faecalis*         |
|26 | *Enterococcus faecium*         | *Enterococcus faecium*          |
|27 | *Haemophilus influenzae, Staphylococcus epidermidis* (mecA/C) | *Haemophilus influenzae, Staphylococcus epidermidis* (mecA/C) |
|28 | *Escherichia coli*             | *Escherichia coli, Staphylococcus epidermidis* (mecA/C) |
|29 | *Streptococcus salivarius*     | *Streptococcus*                 |
|30 | *Escherichia coli* (3GCR)      | *Escherichia coli* (bla<sub>CTX-M</sub>) |
|31 | *Klebsiella pneumoniae*        | *Klebsiella pneumoniae group* (bla<sub>CTX-M</sub>, bla<sub>oxa-48</sub>-like) |
|32 | *Candida krusei*               | *Candida krusei*                |
|   | Species                                      | Species                                      |
|---|---------------------------------------------|---------------------------------------------|
| 33| Enterobacter cloacae Complex                | Enterobacter cloacae Complex                |
| 34| Staphylococcus hominis                      | Staphylococcus spp.                        |
| 35| Escherichia coli                            | Escherichia coli                            |
| 36| Streptococcus mitis Group,                  | Staphylococcus spp. Streptococcus spp.     |
|    | Staphylococcus hominis                      |                                             |
| 37| Streptococcus pneumoniae                    | Streptococcus pneumoniae                    |
| 38| Staphylococcus aureus                       | Staphylococcus aureus                       |
| 39| Escherichia coli (3GCR)                     | Escherichia coli                            |
| 40| Enterobacter cloacae Complex                | Enterobacter cloacae Complex                |
| 41| Klebsiella pneumoniae                       | Klebsiella pneumoniae Group                 |
| 42| Enterococcus faecium                        | Enterococcus faecium                        |
| 43| Escherichia coli                            | Escherichia coli                            |
| 44| Escherichia coli                            | Escherichia coli                            |
| 45| Enterococcus faecium (vanB)                 | Enterococcus faecium (vanA/B)               |
| 46| Staphylococcus aureus                       | Staphylococcus aureus                       |
| 47| Staphylococcus haemolyticus (mecA/C)        | Staphylococcus epidermidis (mecA/C)         |
| 48| Pseudomonas aeruginosa                      | Pseudomonas aeruginosa                      |
| 49| Escherichia coli, Enterococcus faecium      | Escherichia coli, Enterococcus faecium      |
|   |   |   |
|---|---|---|
| 50 | **Streptococcus dysgalactiae** | **Streptococcus spp.** |
| 51 | **Enterococcus faecium, Staphylococcus epidermidis** | **Enterococcus faecium** |
| 52 | **Streptococcus dysgalactiae** | **Streptococcus spp.** |
| 53 | **Enterococcus faecium (vanB), Staphylococcus haemolyticus** | **Enterococcus faecium (vanA/B), Staphylococcus spp.** |
| 54 | **Enterococcus faecalis** | **Enterococcus faecalis, Staphylococcus epidermidis (meca/C)** |
| 55 | **Enterococcus faecium (vanB)** | **Enterococcus faecium (vanA/B)** |
| 56 | **Escherichia coli (3GCR)** | **Escherichia coli (bla\textsubscript{CTX-M})** |
| 57 | **Escherichia coli** | **Escherichia coli** |
| 58 | **Escherichia coli, Aeromonas veronii** | **Escherichia coli, Klebsiella pneumoniae Group, (bla\textsubscript{CTX-M})** |
| 59 | **Enterobacter cloacae Complex** | **Enterobacter cloacae Complex** |
| 60 | **Proteus mirabilis** | **Proteus spp.** |
| 61 | **Staphylococcus aureus** | **Staphylococcus aureus** |
| 62 | **Staphylococcus haemolyticus (meca/C)** | **Staphylococcus epidermidis (meca/C)** |
| 63 | **Streptococcus sanguinis Group** | **Streptococcus spp.** |
| 64 | **Escherichia coli, Staphylococcus epidermidis (meca/C)** | **Escherichia coli, Staphylococcus epidermidis (meca/C)** |
| 65 | **Streptococcus agalactiae** | **Streptococcus agalactiae** |
| 66 | **Escherichia coli** | **Escherichia coli** |
|   | Escherichia coli | Escherichia coli |
|---|-----------------|-----------------|
| 67|                 |                 |
| 68| Staphylococcus aureus | Staphylococcus aureus |
| 69| Streptococcus pneumoniae | Streptococcus pneumoniae |
| 70| *Escherichia coli* (3GCR) | *Escherichia coli* (*bla*CTX-M), *Staphylococcus epidermidis* (*mecA/C*) |
| 71| Staphylococcus aureus | Staphylococcus aureus |
| 72| *Escherichia coli* | *Escherichia coli* |
| 73| *Escherichia coli*, *Staphylococcus epidermidis* | *Escherichia coli*, *Staphylococcus spp.* |
| 74| *Enterococcus faecium* (*vanB*) | *Enterococcus faecium* (*vanA/B*) |
| 75| *Staphylococcus haemolyticus* (*mecA/C*), *Candida krusei* | *Staphylococcus epidermidis* (*mecA/C*), *Candida krusei* |
| 76| *Enterococcus faecalis*, *Staphylococcus epidermidis* | *Enterococcus faecalis*, *Staphylococcus epidermidis* |
| 77| *Staphylococcus haemolyticus* | *Staphylococcus spp.* |
| 78| *Escherichia coli* | *Escherichia coli* |
| 79| *Enterococcus faecium* (*vanB*), *Candida albicans*, *Staphylococcus epidermidis* (*mecA/C*) | *Enterococcus faecium* (*vanA/B*), *Staphylococcus epidermidis* (*mecA/C*), *Candida albicans* |
| 80| *Streptococcus dysgalactiae* | *Streptococcus spp.* |
| 81| *Enterococcus faecium* (*vanB*) | *Enterococcus faecium* (*vanA/B*) |
| 82| *Escherichia coli* (3GCR), *Streptococcus anginosus Group* | *Escherichia coli* (*bla*CTX-M), *Bacteroides fragilis*, *Streptococcus spp.* |
| 83| *Escherichia coli* | *Escherichia coli* |
|   | Staphylococcus aureus | Staphylococcus aureus |
|---|----------------------|----------------------|
| 84|                      |                      |
| 85| Streptococcus pneumoniae | Streptococcus pneumoniae |
| 86| Staphylococcus aureus | Staphylococcus aureus |
| 87| Streptococcus agalactiae, Staphylococcus epidermidis | Streptococcus agalactiae, Staphylococcus epidermidis |
| 88| Streptococcus equinus/bovis Group | Streptococcus spp. |
| 89| Escherichia coli (3GCR) | Escherichia coli (bla<sub>CTX-M</sub>) |
| 90| Escherichia coli (3GCR), Pseudomonas aeruginosa | Escherichia coli (bla<sub>CTX-M</sub>), Pseudomonas aeruginosa |
| 91| Escherichia coli | Escherichia coli |
| 92| Escherichia coli | Escherichia coli |
| 93| Staphylococcus aureus | Staphylococcus aureus |
| 94| Staphylococcus aureus | Staphylococcus aureus |
| 95| Escherichia coli | Escherichia coli |
| 96| Staphylococcus epidermidis (mecA/C), Staphylococcus caprae | Staphylococcus epidermidis (mecA/C) |
| 97| Staphylococcus haemolyticus | Staphylococcus epidermidis |
| 98| Staphylococcus epidermidis, Bacillus cereus Group | Staphylococcus epidermidis |
| 99| Staphylococcus haemolyticus | Staphylococcus spp. |
| 100| Klebsiella oxytoca | Klebsiella oxytoca |
|   | **Bacterial Species**                                      | **Reference**                        |
|---|-----------------------------------------------------------|--------------------------------------|
|101| *Staphylococcus hominis, Staphylococcus epidermidis*     | *Staphylococcus epidermidis*          |
|102| *Enterococcus faecalis*                                   | *Enterococcus faecalis*              |
|103| *Staphylococcus aureus*                                   | *Staphylococcus aureus*              |
|104| *Staphylococcus hominis*                                  | *Staphylococcus spp.*                |
|105| *Klebsiella oxytoca*                                      | *Klebsiella oxytoca*                 |
|106| *Enterococcus faecium*                                    | *Enterococcus faecium*               |
|107| *Klebsiella pneumoniae*                                   | *Klebsiella pneumoniae Group*         |
|108| *Enterococcus faecalis*                                   | *Enterococcus faecalis*              |
|109| *Enterococcus hirae*                                      | none                                 |
|110| *Acinetobacter baumannii complex*                         | *Acinetobacter calcoaceticus-baumannii Complex*|
|111| *Escherichia coli*                                        | *Escherichia coli*                   |
|112| *Enterococcus faecium (vanB)*                             | *Enterococcus faecium (vanA/B)*      |
|113| *Escherichia coli (3GCR)*                                 | *Escherichia coli (bla<sub>CTX-M</sub>)*|
|114| *Proteus mirabilis*                                       | *Proteus spp.*                       |
|115| *Enterococcus faecium*                                    | *Enterococcus faecium*               |
|116| *Klebsiella pneumoniae (3GCR)*                            | *Klebsiella pneumoniae Group*         |
|117| *Escherichia coli*                                        | *Escherichia coli*                   |
|   | Staphylococcus haemolyticus          | Staphylococcus epidermidis (mecA/C) |
|---|-------------------------------------|-------------------------------------|
| 118 | Staphylococcus haemolyticus          | Staphylococcus spp.                 |
| 119 | Proteus mirabilis                    | Proteus spp.                        |
| 120 | Staphylococcus haemolyticus          | Staphylococcus spp.                 |
| 121 | Staphylococcus hominis               | Staphylococcus spp.                 |
| 122 | Clostridium perfringens, Staphylococcus epidermidis | none |
| 123 | Enterococcus faecium (vanA)          | Enterococcus faecium (vanA/B)       |
| 124 | Staphylococcus aureus                | Staphylococcus aureus               |
| 125 | Escherichia coli                     | Escherichia coli                    |
| 126 | Enterococcus faecalis, Enterococcus faecium, Candida albicans | Enterococcus faecalis, Enterococcus faecium |
| 127 | Klebsiella oxytoca, Enterococcus faecium (vanB) | Klebsiella oxytoca |
| 128 | Streptococcus equinus/bovis Group    | Streptococcus spp.                  |
| 129 | Streptococcus pyogenes               | Streptococcus pyogenes              |
| 130 | Escherichia coli                     | Escherichia coli                    |
| 131 | Pseudomonas aeruginosa               | Pseudomonas aeruginosa              |
| 132 | Pseudomonas aeruginosa               | Pseudomonas aeruginosa              |
| Page | Species | Group |
|------|---------|-------|
| 135  | *Klebsiella oxytoca* (3GCR) | *Klebsiella oxytoca* |
| 136  | *Klebsiella pneumoniae* | *Klebsiella pneumoniae group* |
| 137  | *Streptococcus pneumoniae* | *Streptococcus pneumoniae* |
| 138  | *Klebsiella pneumoniae* | *Klebsiella pneumoniae group* |
| 139  | *Staphylococcus aureus* | *Staphylococcus aureus* |
| 140  | *Staphylococcus epidermidis* | *Staphylococcus epidermidis* |
| 141  | *Escherichia coli* | *Escherichia coli* |
| 142  | *Enterococcus faecium* (vanB) | invalid |
| 143  | *Streptococcus dysgalactiae* | *Streptococcus spp.* |
| 144  | *Klebsiella pneumoniae* (3GCR) | *Klebsiella pneumoniae group* |
| 145  | *Escherichia coli, Enterococcus faecium* | *Escherichia coli, Enterococcus faecium* |
| 146  | *Escherichia coli* | *Escherichia coli* |
| 147  | *Escherichia coli* | *Escherichia coli* |
| 148  | *Streptococcus dysgalactiae* | *Streptococcus spp.* |
| 149  | *Streptococcus mitis Group* | *Streptococcus spp.* |
| 150  | *Escherichia coli* | *Escherichia coli* |
| 151  | *Enterobacter cloacae* Complex | *Enterobacter cloacae* Complex |
| Page | Bacteria                                                                 | Notes                                      |
|------|--------------------------------------------------------------------------|--------------------------------------------|
| 152  | *Staphylococcus haemolyticus*                                           | *Staphylococcus spp.*                     |
| 153  | *Escherichia coli* (3GCR)                                                | *Escherichia coli* (bla<sub>CTX-M</sub>)   |
| 154  | *Enterobacter cloacae* Complex                                           | *Enterobacter cloacae* Complex             |
| 155  | *Klebsiella aerogenes*                                                   | *Klebsiella aerogenes*                     |
| 156  | *Morganella morganii*                                                    | Enteric bacteria                           |
| 157  | *Escherichia coli, Staphylococcus aureus*                                | *Escherichia coli, Staphylococcus aureus*  |
| 158  | *Klebsiella pneumoniae* (3GCR)                                           | *Klebsiella pneumoniae* group              |
| 159  | *Staphylococcus haemolyticus*                                           | *Staphylococcus spp.*                     |
| 160  | *Streptococcus dysgalactiae*                                             | *Streptococcus spp.*                      |
| 161  | *Staphylococcus hominis*                                                 | *Staphylococcus spp.*                     |
| 162  | *Staphylococcus aureus*                                                  | *Staphylococcus aureus*                   |
| 163  | *Proteus mirabilis*                                                      | *Proteus spp.*                             |
| 164  | *Proteus mirabilis*                                                      | *Proteus spp.*                             |
| 165  | *Staphylococcus epidermidis* (mecA/C)                                    | *Staphylococcus epidermidis* (mecA/C)      |
| 166  | *Escherichia coli* (3GCR)                                                | *Escherichia coli* (bla<sub>CTX-M</sub>)   |
| 167  | *Staphylococcus caprae*                                                  | *Staphylococcus spp.*                     |
| 168  | *Staphylococcus haemolyticus*                                            | *Staphylococcus spp.*                     |
|   | Pseudomonas aeruginosa | Pseudomonas aeruginosa |
|---|-----------------------|-----------------------|
| 170 | Staphylococcus hominis | Staphylococcus spp. |
| 171 | Klebsiella oxytoca | Klebsiella oxytoca |
| 172 | Acinetobacter beijerinckii | none |
| 173 | Streptococcus pneumoniae | Streptococcus pneumoniae |
| 174 | Escherichia coli | Escherichia coli |
| 175 | Proteus mirabilis, Staphylococcus aureus | Proteus spp., Staphylococcus aureus |
| 176 | Escherichia coli (3GCR) | Escherichia coli (bla<sub>CTX-M</sub>) |
| 177 | Staphylococcus hominis | Staphylococcus spp. |
| 178 | Pantoea agglomerans, Staphylococcus haemolyticus | Enteric bacteria, Staphylococcus epidermidis (mecA/C) |
| 179 | Staphylococcus epidermidis (mecA/C), Staphylococcus hominis | Staphylococcus epidermidis (mecA/C) |
| 180 | Streptococcus dysgalactiae | Streptococcus spp. |
| 181 | Klebsiella pneumoniae, Pseudomonas aeruginosa | Klebsiella pneumoniae group, Pseudomonas aeruginosa |
| 182 | Enterococcus faecium | Enterococcus faecium |
| 183 | Klebsiella pneumoniae | Klebsiella pneumoniae Group |