Supplementary Materials: Antibiotic Resistance and Phylogeny of *Pseudomonas* spp. Isolated over Three Decades from Chicken Meat in the Norwegian Food Chain

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**Figure S1.** NDtree of the genome sequenced isolates (n = 31) together with 29 selected representative isolates from NCBI. The NCBI isolates are shown by species name in black and the 31 isolates from this study are colored according to collection number.
Table S1. Information and statistics on draft genome assembly data for 31 *Pseudomonas* spp. strains.

| Assembler | # contigs (≥ 500 bp) | Total length (≥ 500 bp) | Largest contig | GC (%) | N50 | CDS (prokka) | rRNA Repeat region | Run No | Average coverage | Collection no. |
|-----------|----------------------|--------------------------|----------------|--------|-----|--------------|---------------------|--------|-----------------|----------------|
| MF2830    | 66                   | 5974525                  | 756123         | 60.21  | 225689 | 5430         | 4                   | 2      | 90              | 1              |
| MF2846    | 49                   | 6201956                  | 940246         | 60.14  | 243731 | 5580         | 6                   | 2      | 82              | 1              |
| MF2857    | 46                   | 6201932                  | 606173         | 60.14  | 333850 | 5581         | 6                   | 2      | 87              | 2              |
| MF5691    | 63                   | 6222407                  | 578174         | 60.42  | 240657 | 5598         | 6                   | 1      | 356             | 2              |
| MF5694    | 28                   | 6042078                  | 1062146        | 59.98  | 599652 | 5334         | 5                   | 2      | 98              | 2              |
| MF6746    | 98                   | 6555296                  | 410551         | 59.74  | 167740 | 5943         | 6                   | 2      | 80              | 3A             |
| MF6747    | 51                   | 6811860                  | 517135         | 60.05  | 297540 | 6156         | 6                   | 2      | 74              | 3A             |
| MF6751    | 105                  | 6163290                  | 397146         | 60.05  | 141886 | 5508         | 8                   | 1      | 324             | 3B             |
| MF6752    | 52                   | 6100883                  | 955559         | 60.09  | 322679 | 5450         | 8                   | 2      | 95              | 3B             |
| MF6753    | 36                   | 6207278                  | 1159705        | 59.64  | 367283 | 5536         | 6                   | 2      | 102             | 3B             |
| MF6754    | 76                   | 6264719                  | 612375         | 60.29  | 249574 | 5613         | 7                   | 2      | 108             | 3B             |
| MF6755    | 59                   | 6561166                  | 494347         | 59.49  | 265651 | 5849         | 5                   | 1      | 282             | 3B             |
| MF6762    | 77                   | 5804763                  | 410820         | 57.3   | 190055 | 5389         | 5                   | 2      | 114             | 3B             |
| MF6766    | 27                   | 6379767                  | 1749566        | 59.63  | 696963 | 5710         | 5                   | 1      | 347             | 3B             |
| MF6767    | 63                   | 6547104                  | 745903         | 59.74  | 256027 | 5937         | 7                   | 2      | 77              | 3B             |
| MF6768    | 95                   | 6012416                  | 426850         | 60.6   | 161035 | 5420         | 6                   | 2      | 101             | 3A             |
| MF6772    | 65                   | 6218191                  | 525726         | 60.69  | 237631 | 5643         | 6                   | 2      | 96              | 3A             |
| MF6776    | 117                  | 6666116                  | 466001         | 58.51  | 211334 | 6068         | 4                   | 1      | 328             | 3A             |
| MF6784    | 67                   | 5970081                  | 629089         | 60.67  | 266923 | 5370         | 8                   | 2      | 96              | 3A             |
| MF6787    | 62                   | 6300351                  | 1029761        | 60.28  | 237634 | 5682         | 7                   | 1      | 230             | 3A             |
| MF7440    | 36                   | 6282835                  | 829529         | 59.78  | 487444 | 5585         | 5                   | 3      | 41              | 1              |
| MF7441    | 68                   | 6070436                  | 627072         | 60.05  | 186108 | 5510         | 6                   | 3      | 52              | 1              |
| MF7445    | 101                  | 6782664                  | 572539         | 59.78  | 163205 | 6100         | 6                   | 3      | 46              | 1              |
| MF7446    | 44                   | 6162814                  | 738133         | 59.95  | 279499 | 5489         | 7                   | 3      | 38              | 1              |
| MF7447    | 55                   | 6448003                  | 748871         | 60.25  | 274573 | 5854         | 7                   | 3      | 46              | 4              |
| MF7448    | 84                   | 6093941                  | 796909         | 60.71  | 163092 | 5506         | 8                   | 3      | 42              | 4              |
| MF7450    | 131                  | 6447082                  | 337237         | 59.74  | 113604 | 5803         | 5                   | 3      | 48              | 4              |
| MF7451    | 53                   | 6259359                  | 467413         | 59.91  | 259080 | 5604         | 8                   | 3      | 76              | 4              |
| MF7452    | 73                   | 6430424                  | 452601         | 59.61  | 191638 | 5815         | 8                   | 3      | 53              | 4              |
| MF7453    | 55                   | 6529967                  | 767135         | 59.63  | 291860 | 5822         | 5                   | 1      | 97              | 4              |
| MF7454    | 78                   | 6809055                  | 555633         | 59.43  | 196228 | 6253         | 7                   | 3      | 57              | 4              |
Table S2. List of 28 *Pseudomonas* genome assemblies downloaded from the NCBI microbial genome database and used in the NDtree analyses.

| Assembly ID          | Origin | Organism Name   | Strain  | Level    |
|----------------------|--------|----------------|---------|----------|
| GCA_900113625.1      | NCBI   | *P. syringae*  | BS3827  | Contig   |
| GCA_900105935.1      | NCBI   | *P. costantinii* | BS2773  | Contig   |
| GCA_900101415.1      | NCBI   | *P. koreensis*  | BS3658  | Contig   |
|                      |        |                |         | Chromosome |
| GCA_900101185.1      | NCBI   | *P. gessardii* | BS2982  | Contig   |
| GCA_013522805.1      | NCBI   | *P. carnis*    | 96A1    | Contig   |
| GCA_013365825.1      | NCBI   | *P. reactans*  | C5002   | Scaffold |
| GCA_012986545.1      | NCBI   | *P. lactis*    | WS 5000 | Contig   |
| GCA_012986025.1      | NCBI   | *P. protovoltica* | WS 5126 | Contig   |
| GCA_011040435.1      | NCBI   | *P. psychrophila* | KM02   | Complete |
| GCA_010448615.1      | NCBI   | *P. fluorescens*  | DR397   | Complete |
| GCA_009659615.1      | NCBI   | *P. haemolytica* | DSM     | Contig   |
|                      |        |                | 108988  |          |
| GCA_004363635.1      | NCBI   | *P. brenneri*  | BIGb0273| Scaffold |
| GCA_003851495.1      | NCBI   | *P. syxantha*  | feb.79  | Complete |
| GCA_002934065.1      | NCBI   | *P. orientalis* | F9      | Complete |
| GCA_002813455.1      | NCBI   | *P. baetica*   | LMG     | Contig   |
|                      |        |                | 25716   |          |
| GCA_002813445.1      | NCBI   | *P. tolaasii NCPPB 2192 | NCPPB 2192 | Contig   |
| GCA_002269585.1      | NCBI   | *P. fragi*     | F1786   | Scaffold |
| GCA_002028325.1      | NCBI   | *P. veronii*   | R02     | Complete |
| GCA_001708425.1      | NCBI   | *P. corrugata* | RM1-1-4 | Complete |
| GCA_001647715.1      | NCBI   | *P. antarctica* | PAMC 27494 | Complete |
| GCA_001439735.1      | NCBI   | *P. paralactis* | DSM 29164 | Contig   |
| GCA_001439685.1      | NCBI   | *P. libanensis* | DSM 17149 | Contig   |
| GCA_001043065.1      | NCBI   | *P. helleri*   | DSM 28141 | Contig   |
| GCA_001043055.1      | NCBI   | *P. weihenstephanensis* | DSM 29166 | Contig   |
| GCA_000967935.1      | NCBI   | *P. marginalis* | H21     | Scaffold |
| GCA_000934565.1      | NCBI   | *P. simiae*    | PCL1751 | Complete |
Table S3. Species prevalence within the *Pseudomonas* strain collections 1, 2, 3A, 3B and 4. Best match species (partial 16S rRNA gene), number of isolates within that specie (n) and corresponding prevalence (%) within the different collections (1, 2, 3A, 3B and 4) are shown.

| Best match (species) | 1 | 2 | 3A | 3B | 4 | Grand total |
|----------------------|---|---|----|----|---|-------------|
| *P. gessardii* (n = 68) | 4% | 9% | 42% | 11% | 22% | 21% |
| *P. lactis* (n = 57) | 19% | 9% | 10% | 39% | 24% | 18% |
| *P. uvigerinum* (n = 52) | 35% | 21% | 8% | 6% | 0% | 16% |
| *P. canadensis* (n = 22) | 3% | 3% | 4% | 33% | 4% | 7% |
| *P. veronii* (n = 22) | 1% | 9% | 16% | 0% | 0% | 7% |
| *P. cereosolvens* (n = 16) | 7% | 12% | 4% | 3% | 0% | 5% |
| *P. corrugata* (n = 13) | 1% | 9% | 4% | 3% | 9% | 4% |
| *P. fragi* (n = 13) | 4% | 6% | 6% | 0% | 0% | 4% |
| *P. marginalis* (n = 11) | 4% | 3% | 1% | 3% | 9% | 3% |
| *P. migulae* (n = 11) | 2% | 6% | 5% | 0% | 2% | 3% |
| *P. helleri* (n = 7) | 6% | 0% | 0% | 0% | 0% | 0% |
| *P. koreensis* (n = 6) | 5% | 3% | 0% | 0% | 2% | 2% |
| *P. tolaasii* (n = 6) | 4% | 3% | 0% | 3% | 0% | 2% |
| *P. silesiensis* (n = 5) | 0% | 0% | 0% | 0% | 0% | 2% |
| *P. helmanticensis* (n = 4) | 2% | 3% | 0% | 0% | 2% | 1% |
| *P. turukhanskensis* (n = 3) | 1% | 0% | 0% | 0% | 0% | 1% |
| *P. deceptionensis* (n = 2) | 0% | 3% | 1% | 0% | 0% | 4% |
| *P. flavescens* (n = 2) | 0% | 0% | 0% | 0% | 0% | 1% |
| *P. brassicacearum* (n = 1) | 0% | 0% | 0% | 0% | 0% | 0% |
| *P. brevicaulis* (n = 1) | 0% | 0% | 0% | 0% | 0% | 0% |
| *P. caeni* (n = 1) | 0% | 0% | 0% | 0% | 0% | 2% |
| *P. rhodesiae* (n = 1) | 0% | 0% | 0% | 0% | 0% | 0% |
| *P. versuta* (n = 1) | 1% | 0% | 0% | 0% | 0% | 0% |

1 Best match based on 288 bp og the 16S rRNA gene and the BLAST 16S rRNA (bacterial and archaea type strains) database.

Table S4. Taxonomy of isolates in Collection 1. The taxonomy based on carbon assimilation (Sundheim et al. 1998) and best BLAST match of partial 16S rRNA gene (288bp) are given for all isolates. The corresponding rMLST and nearest neighbour (NDtree) are given for the 7 isolates that were genome sequenced from Collection 1. Two isolates did not have a MF-number and are represented as na.
| Code    | Group | Species                        | Biovar | Genus                        | Species                          |
|---------|-------|--------------------------------|--------|------------------------------|----------------------------------|
| MF2846  | A     | *P. fluorescens* biovar I-1    | P. lactis | *Pseudomonas*                        | *P. lactis* / *P. carnis* |
| MF7439  | A     | *P. fluorescens* biovar I-1    | P. lactis |                              |                                  |
| MF7441  | A     | *P. fluorescens* biovar I-1    | P. lactis | *P. fluorescens*                        | *P. lactis* / *P. carnis* |
| MF2857  | A     | *P. fluorescens* biovar I-1    | P. lactis | *Pseudomonas*                        | *P. lactis* / *P. carnis* |
| MF7442  | A     | *P. fluorescens* biovar I-1    | P. lactis |                              |                                  |
| MF2828  | A     | *P. fluorescens* biovar I-1    | P. lactis |                              |                                  |
| MF2830  | A     | *P. fluorescens* biovar I-1    | P. lactis | *P. fluorescens*                        | *P. lactis* / *P. carnis* |
| na      | A     | *P. fluorescens* biovar I-1    | P. lactis |                              |                                  |
| MF7445  | A     | *P. fluorescens* biovar I-1    | P. lactis | *P. lactis*                        | *P. lactis* / *P. carnis* |
| MF2815  | A     | *P. fluorescens* biovar I-1    | P. lactis |                              |                                  |
| MF7547  | A     | *P. fluorescens* biovar I-1    | P. lactis |                              |                                  |
| MF7446  | A     | *P. fluorescens* biovar I-1    | P. lactis | *P. carnis*                       | *P. lactis* / *P. carnis* |
| MF7553  | A     | *P. fluorescens* biovar I-1    | P. lactis |                              |                                  |
| MF7490  | B     | very similar assimilation      | *P. canadensis* |                              |                                  |
| MF7440  | B     | very similar assimilation      | *P. canadensis* | *P. haemolytica*                | *P. haemolytica* |
| MF7521  | B     | very similar assimilation      | *P. canadensis* |                              |                                  |
| MF7537  | B     | very similar assimilation      | *P. gessardii* |                              |                                  |
| MF7443  | B     | very similar assimilation      | *P. lactis* |                              |                                  |
| na      | B     | very similar assimilation      | *P. lactis* |                              |                                  |
| Strain       | Group | Assimilation Properties                          | Species                     |
|-------------|-------|-------------------------------------------------|-----------------------------|
| MF7444      | B     | very similar assimilation properties to group A strains | *P. lactis*                 |
| MF7546      | B     | very similar assimilation properties to group A strains | *P. lactis*                 |
| MF7477      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7484      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7486      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7500      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7510      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7512      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7513      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7523      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7531      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7543      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7550      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7551      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7552      | C     | *P. lundensis*                                  | *P. weihenstephanensis*     |
| MF7519      | D     | Similar to group C                              | *P. koreensis*              |
| MF7475      | D     | Similar to group C                              | *P. weihenstephanensis*     |
| MF7476      | D     | Similar to group C                              | *P. weihenstephanensis*     |
| MF7479      | D     | Similar to group C                              | *P. weihenstephanensis*     |
| MF7481      | D     | Similar to group C                              | *P. weihenstephanensis*     |
| MF7485      | D     | Similar to group C                              | *P. weihenstephanensis*     |
| MF7497      | D     | Similar to group C                              | *P. weihenstephanensis*     |
| MF7502      | D     | Similar to group C                              | *P. weihenstephanensis*     |
| Accession | Group | Description | Species |
|-----------|-------|-------------|---------|
| MF7506    | D     | Similar to group C | *P. weihenstephanensis* |
| MF7511    | D     | Similar to group C | *P. weihenstephanensis* |
| MF7504    | D     | Similar to group C | *P. weihenstephanensis* |
| MF7518    | D     | Similar to group C | *P. weihenstephanensis* |
| MF7527    | D     | Similar to group C | *P. weihenstephanensis* |
| MF7533    | D     | Similar to group C | *P. weihenstephanensis* |
| MF7549    | D     |             | *P. weihenstephanensis* |
| MF7496    | E1    |             | *P. fluorescens* biovars IV-1 and V-1 |
| MF7501    | E1    |             | *P. corrugata* |
| MF7503    | E1    |             | *P. migulae* |
| MF7555    | E1    |             | *P. turukhanskensis* |
| MF7494    | E2    | E strains fell in between E1 og F | *P. helmanticensis* |
| MF7493    | E2    | E strains fell in between E1 og F | *P. koreensis* |
| MF7499    | E2    | E strains fell in between E1 og F | *P. koreensis* |
| MF7517    | E2    | E strains fell in between E1 og F | *P. koreensis* |
| MF7492    | F     | *P. fluorescens* biovar V-2 | *P. helmanticensis* |
| MF7491    | F     | *P. fluorescens* biovar V-2 | *P. koreensis* |
| MF2331    | G     | *P. fragi* | *P. cerasi* |
| MF7539    | G     | *P. fragi* | *P. cerasi* |
| MF7532    | G     | *P. fragi* | *P. fragi* |
| MF7480    | G     | *P. fragi* | *P. marginalis* |
| MF7509    | H     | Similar to group G | *P. cerasi* |
| MF7514    | H     | Similar to group G | *P. cerasi* |
| MF7534    | H     | Similar to group G | *P. cerasi* |
| MF7529    | H     | Similar to group G | *P. cerasi* |
| MF7530    | H     | Similar to group G | *P. cerasi* |
| MF7542    | H     | Similar to group G | *P. fragi* |
| MF7538    | H     | Similar to group G | *P. fragi* |
| MF7548    | H     | Similar to group G | *P. fragi* |
| Accession | Column | Closest Similarity |
|-----------|--------|--------------------|
| MF7528    | H      | Similar to group G  |
|           |        | P. weihenstephanensis |
| MF7482    | I      | closest similarity  |
|           |        | was with P.         |
|           |        | fluorescens biovar  |
|           |        | V-4                |
| MF7526    | I      | closest similarity  |
|           |        | was with P.         |
|           |        | fluorescens biovar  |
|           |        | V-4                |
| MF7535    | I      | closest similarity  |
|           |        | was with P.         |
|           |        | fluorescens biovar  |
|           |        | V-4                |
| MF7541    | I      | closest similarity  |
|           |        | was with P.         |
|           |        | fluorescens biovar  |
|           |        | V-4                |
| MF7554    | I      | closest similarity  |
|           |        | was with P.         |
|           |        | fluorescens biovar  |
|           |        | V-4                |
| MF7558    | I      | closest similarity  |
|           |        | was with P.         |
|           |        | fluorescens biovar  |
|           |        | V-4                |
| MF7524    | J      | P. fluorescens biovar  |
|           |        | II strains and       |
|           |        | biovar II-3          |
| MF2868    | J      | P. fluorescens biovar  |
|           |        | II strains and       |
|           |        | biovar II-3          |
| MF7544    | J      | P. fluorescens biovar  |
|           |        | II strains and       |
|           |        | biovar II-3          |
| MF7536    | J      | P. fluorescens biovar  |
|           |        | II strains and       |
|           |        | biovar II-3          |
| MF7438    | K      | P. fluorescens biovar  |
|           |        | II-1                |
| MF7520    | K      | P. fluorescens biovar  |
|           |        | II-1                |
| MF7474    | K      | P. fluorescens biovar  |
|           |        | II-1                |
| MF7483    | K      | P. fluorescens biovar  |
|           |        | II-1                |
| MF7489    | K      | P. fluorescens biovar  |
|           |        | II-1                |
| MF7498    | K      | P. fluorescens biovar  |
|           |        | II-1                |
| MF7540    | M      | P. fluorescens biovar  |
|           |        | III-1               |
Table S5. Antibiotic susceptibility data and presence/absence of class 1 integrons in 175 Pseudomonas spp. isolates.

| Isolate (MF number) | Identification (BLAST 16S rDNA) | Isolate collection (class 1 integron) | intI1 | Meropenem | Amikacin | Gentamicin | Aztreonam | Ciprofloxacin | Piperacillin | Ceftolozane/Tazobactam | Colistin | Tobramycin | Ceftazidime/Azimbicactam | Ceftazidime/A Imipenem |
|---------------------|---------------------------------|-------------------------------------|-------|-----------|----------|-----------|-----------|--------------|-------------|------------------|----------|-----------|------------------------|------------------------|
| MF7556              | M                               | P. fluorescens biovar III-1         | P. gessardii |           |          |           |           |              |              |                  |          |           |                        |                        |
| 5696  | 5697  | 5701  | 5702  | 5703  | 5706  | 5707  | 5708  | 5724  | 5729  | 5731  | 6729  | 6730  | 6731  | 6732  | 6734  | 6735  | 6736  | 6737  | 6738  | 6739  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| P. gessardii | 2 | Neg | 4 ≤ 4 ≤ 0.5 | 64 ≤ 0.06 | 8/4 | 1/4 | 1 | 2 | 8 | 2/4 | 4 |
| 5697  | P. weihenstephanensis | 2 | Neg | 4 ≤ 4 ≤ 0.5 | 64 | 0.12 | 4/4 | 1/4 | 2 | 2 | 2 | 2/4 | 2 |
| 5701  | P. decepti onensis | 2 | Neg | ≤ 0.12 ≤ 4 ≤ 0.5 | 8 | ≤ 0.06 | 2/4 | 1/4 | 1 | 2 | 1 | 1/4 | 1 |
| 5702  | P. fragi | 2 | Neg | ≤ 0.12 ≤ 4 ≤ 0.5 | 16 | ≤ 0.06 | 4/4 | 2/4 | 1 | 2 | 4 | 4/4 | ≤ 0.5 |
| 5703  | P. corrugata | 2 | Neg | 0.25 ≤ 4 ≤ 0.5 | 32 | ≤ 0.06 | 8/4 | ≤ 0.5/4 | 0.5 | 2 | 4 | 4/4 | ≤ 0.5 |
| 5706  | P. cerasi | 2 | Neg | ≤ 0.12 ≤ 4 ≤ 0.5 | 16 | ≤ 0.06 | 4/4 | 2/4 | 4 | 2 | 4 | 4/4 | 2 |
| 5707  | P. helmanticensis | 2 | Neg | 0.5 ≤ 4 ≤ 0.5 | 32 | 0.12 | 8/4 | ≤ 0.5/4 | 1 | 2 | 2 | 2/4 | 1 |
| 5708  | P. koreensis | 2 | Neg | 0.25 ≤ 4 ≤ 0.5 | 64 | ≤ 0.06 | 16/4 | 1/4 | 1 | 2 | ≥ 32 | 4/4 | 2 |
| 5724  | P. lactis | 2 | Neg | 8 ≤ 4 ≤ 0.5 | 64 | ≤ 0.06 | 8/4 | 1/4 | ≥ 16 | 2 | 2 | 2/4 | 8 |
| 5729  | P. versuta | 2 | Neg | ≤ 0.12 ≤ 4 ≤ 0.5 | 1 | ≤ 0.06 | ≤ 1/4 | ≤ 0.5/4 | 8 | 2 | ≤ 0.5 | ≤ 0.5/4 | ≤ 0.5 |
| 5731  | P. weihenstephanensis | 2 | Neg | ≤ 0.12 ≤ 4 ≤ 0.5 | 8 | 0.12 | 4/4 | 1/4 | 1 | 2 | 1 | 1/4 | 1 |
| 6729  | P. corrugata | 3A | Neg | 1 ≤ 4 ≤ 0.5 | 32 | 0.12 | 4/4 | ≤ 0.5/4 | 0.5 | 2 | 4 | 2/4 | 1 |
| 6730  | P. gessardii | 3A | Neg | 8 ≤ 4 ≤ 0.5 | 64 | ≤ 0.06 | 8/4 | 1/4 | 0.5 | 2 | 8 | 4/4 | 4 |
| 6731  | P. lactis | 3A | Neg | 2 ≤ 4 ≤ 0.5 | 64 | ≤ 0.06 | 2/4 | ≤ 0.5/4 | ≥ 16 | 2 | 2 | 1/4 | 2 |
| 6732  | P. cerasi | 3A | Neg | ≤ 0.12 ≤ 4 ≤ 0.5 | 8 | ≤ 0.06 | 2/4 | 2/4 | 1 | 2 | 2 | 2/4 | ≤ 0.5 |
| 6734  | P. gessardii | 3A | Neg | 4 ≤ 4 ≤ 0.5 | 64 | ≤ 0.06 | 8/4 | 2/4 | 1 | 2 | 4 | 4/4 | 2 |
| 6735  | P. weihenstephanensis | 3A | Neg | ≤ 0.12 ≤ 4 ≤ 0.5 | 8 | 0.12 | 2/4 | 1/4 | 1 | 2 | 1 | 1/4 | ≤ 0.5 |
| 6736  | P. corrugata | 3A | Neg | ≤ 0.12 ≤ 4 ≤ 0.5 | 32 | ≤ 0.06 | 4/4 | ≤ 0.5/4 | 1 | 2 | 2 | 2/4 | ≤ 0.5 |
| 6737  | P. weihenstephanensis | 3A | Neg | ≤ 0.12 ≤ 4 ≤ 0.5 | 8 | ≤ 0.06 | 2/4 | 2/4 | 0.5 | 2 | 2 | 2/4 | 1 |
| 6738  | P. fragi | 3A | Neg | ≤ 0.12 ≤ 4 ≤ 0.5 | 8 | ≤ 0.06 | 4/4 | 1/4 | 2 | 2 | 2 | 2/4 | ≤ 0.5 |
| 6739  | P. gessardii | 3A | Neg | 16 ≤ 4 ≤ 0.5 | 64 | ≤ 0.06 | 8/4 | 1/4 | 1 | 2 | 8 | 2/4 | 8 |
| Microorganism          | Amino Acid Level | Peptide Level | IC50 | T1/2-hr | T2/2-hr | T3/2-hr | T4/2-hr |
|------------------------|------------------|---------------|------|---------|---------|---------|---------|
| *P. canadensis* | 3A Neg 8 ≤ 4 ≤ 0.5 | 64 0.25 8/4 1/4 | ≥ 16 | 2 | 4 | 4/4 | 8 |
| *P. veronii* | 3A Neg 2 ≤ 4 ≤ 0.5 | 64 0.12 8/4 2/4 | 0.5 | 2 | 8 | 4/4 | 2 |
| *P. weihenstephanensis* | 3A Neg ≤ 0.12 ≤ 4 ≤ 0.5 | 16 0.12 2/4 1/4 | 2 | 2 | 2 | 2/4 | 8 |
| *P. fragi* | 3A Neg ≤ 0.12 ≤ 4 ≤ 0.5 | 16 ≤ 0.06 8/4 1/4 | 2 | 2 | 4 | 4/4 | 2 |
| *P. migulae* | 3A Neg 0.5 ≤ 4 ≤ 0.5 | 64 0.12 4/4 ≤ 0.5 | 2 | 2 | 2/4 | ≤ 0.5 |
| *P. gessardi* | 3A Neg 4 ≤ 4 ≤ 0.5 | 64 ≤ 0.06 8/4 1/4 | 1 | 2 | 16 | 2/4 | 4 |
| *P. lactis* | 3A Neg 16 ≤ 4 ≤ 0.5 | 64 0.12 8/4 1/4 | 8 | 2 | 8 | 4/4 | 16 |
| *P. conadensis* | 3A Neg 8 ≤ 4 ≤ 0.5 | 64 ≤ 0.06 4/4 1/4 | 16 | 2 | 4 | 4/4 | 16 |
| *P. cerasi* | 3A Neg ≤ 0.12 ≤ 4 ≤ 0.5 | 16 ≤ 0.06 4/4 1/4 | 2 | 2 | 4 | 4/4 | 2 |
| *P. tolaasi* | 3B Neg 4 ≤ 4 ≤ 0.5 | 64 0.5 8/4 1/4 | 1 | 2 | 8 | 4/4 | 4 |
| *P. lactis* | 3B Neg 8 ≤ 4 ≤ 0.5 | 64 ≤ 0.06 8/4 1/4 | 8 | 2 | 8 | 4/4 | 8 |
| *P. lactis* | 3B Neg 32 ≤ 4 ≤ 0.5 | 64 0.5 8/4 2/4 | 16 | 2 | 8 | 4/4 | ≥ 32 |
| *P. lactis* | 3B Neg 16 ≤ 4 ≤ 0.5 | 64 0.5 4/4 2/4 | 16 | 2 | 4 | 4/4 | 16 |
| *P. conadensis* | 3B Neg 16 ≤ 4 ≤ 0.5 | 64 0.25 8/4 1/4 | 16 | 2 | 4 | 2/4 | 8 |
| *P. gessardi* | 3B Pos 16 ≤ 4 ≤ 0.5 | 64 0.12 8/4 1/4 | 1 | 2 | 8 | 4/4 | 16 |
| *P. corrugata* | 3B Neg 0.5 ≤ 4 ≤ 0.5 | 64 ≤ 0.06 16/4 4/4 | 0.5 | 2 | 16 | 4/4 | 1 |
| *P. gessardi* | 3B Neg 4 ≤ 4 ≤ 0.5 | 64 ≤ 0.06 8/4 1/4 | 0.5 | 2 | 8 | 2/4 | 4 |
| *P. marginalis* | 3B Neg 2 ≤ 4 ≤ 0.5 | 64 0.12 4/4 2/4 | 16 | 2 | 4 | 4/4 | 4 |
| *P. cerasi* | 3B Neg 2 ≤ 4 ≤ 0.5 | 32 ≤ 0.06 4/4 0.5 | 0.5 | 2 | 4 | 4/4 | 2 |
| *P. marginalis* | 3A Neg 0.5 ≤ 4 ≤ 0.5 | 64 ≤ 0.06 4/4 1/4 | 1 | 2 | 8 | 2/4 | 2 |
| *P. weihenstephanensis* | 3B Pos 0.25 ≤ 4 ≤ 0.5 | 8 2 | 4/4 2/4 | 1 | 2 | 2 | 2/4 | 1 |
| *P. gessardi* | 3A Neg 1 ≤ 4 ≤ 0.5 | 64 ≤ 0.06 8/4 1/4 | 0.5 | 2 | 4 | 2/4 | 1 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6765 | P. weihenstephanensis | 3A | Neg | ≤ 0.12 | ≤ 4 | ≤ 0.5 | 4 | ≤ 0.06 | ≤ 1/4 | 1/4 | 0.5 | 2 | 1 | 1/4 | ≤ 0.5 |
| 6766 | P. canadensis | 3B | Neg | 16 | ≤ 4 | 2 | 64 | 2 | 16/4 | 8/4 | ≥ 16 | 2 | 16 | 4/4 | 16 |
| 6767 | P. lactis | 3B | Neg | 8 | ≤ 4 | ≤ 0.5 | 64 | 0.25 | 4/4 | 1/4 | ≥ 16 | 2 | 2 | 2/4 | 16 |
| 6768 | P. gessardii | 3A | Neg | 16 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 8/4 | 1/4 | 1 | 2 | 8 | 2/4 | 16 |
| 6769 | P. decepti onensis | 3A | Neg | ≤ 0.12 | ≤ 4 | ≤ 0.5 | 8 | 0.12 | 2/4 | ≤ 0.5/4 | 1 | 2 | 1 | 1/4 | ≤ 0.5 |
| 6770 | P. veronii | 3A | Neg | 2 | ≤ 4 | ≤ 0.5 | 64 | 0.12 | 16/4 | 2/4 | 0.5 | 2 | 4 | 4/4 | 2 |
| 6771 | P. lactis | 3A | Neg | 4 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 4/4 | ≤ 0.5/4 | 4 | 2 | 2 | 2/4 | 4 |
| 6772 | P. gessardii | 3A | Neg | 32 | ≤ 4 | 1 | 32 | ≤ 0.06 | 8/4 | 1/4 | 1 | 2 | ≥ 32 | 2/4 | 16 |
| 6773 | P. migula e | 3A | Neg | 1 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 2/4 | ≤ 0.5/4 | 0.5 | 2 | ≤ 0.5 | ≤ 0.5/4 | 1 |
| 6774 | P. canadensis | 3A | Neg | 4 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 4/4 | 1/4 | ≥ 16 | 2 | 4 | 4/4 | 8 |
| 6775 | P. veronii | 3A | Neg | 2 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 8/4 | 2/4 | 0.5 | 2 | 8 | 4/4 | 2 |
| 6776 | P. corrugata | 3A | Pos | 32 | ≤ 4 | ≤ 0.5 | 64 | 0.25 | 32/4 | ≤ 0.5/4 | 1 | 2 | 16 | ≥ 16/4 | 4 |
| 6777 | P. migula e | 3A | Neg | 0.5 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 4/4 | ≤ 0.5/4 | 0.5 | 2 | 2 | 2/4 | 1 |
| 6778 | P. veronii | 3A | Neg | 2 | ≤ 4 | ≤ 0.5 | 64 | 0.12 | 8/4 | 2/4 | 0.5 | 2 | 8 | 4/4 | 2 |
| 6779 | P. weihenstephanensis | 3A | Neg | 0.5 | ≤ 4 | ≤ 0.5 | 64 | 1 | 2/4 | 1/4 | 0.5 | 2 | 4 | 2/4 | 1 |
| 6780 | P. gessardii | 3A | Neg | 4 | ≤ 4 | ≤ 0.5 | 32 | ≤ 0.06 | 4/4 | ≤ 0.5/4 | 0.5 | 2 | 4 | 1/4 | 4 |
| 6781 | P. lactis | 3A | Neg | 2 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 4/4 | 1/4 | ≥ 16 | 2 | 2 | 2/4 | 2 |
| 6782 | P. weihenstephanensis | 3A | Neg | ≤ 0.12 | ≤ 4 | ≤ 0.5 | 8 | 0.12 | 4/4 | 1/4 | 1 | 2 | 2 | 2/4 | 1 |
| 6783 | P. weihenstephanensis | 3A | Neg | ≤ 0.12 | ≤ 4 | ≤ 0.5 | 8 | 0.12 | 2/4 | 1/4 | 1 | 2 | 1 | 1/4 | ≤ 0.5 |
| 6784 | P. gessardii | 3A | Neg | 32 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 8/4 | 1/4 | 1 | 2 | ≥ 32 | 2/4 | 16 |
| 6785 | P. brenneri | 3A | Neg | 4 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 8/4 | 1/4 | 1 | 2 | 2 | 2/4 | 1 |
| 6786 | P. veronii | 3A | Neg | 2 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 8/4 | 1/4 | ≤ 0.25 | 2 | 4 | 4/4 | 2 |
| 6787 | P. gessardii | 3A | Neg | 32 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 16/4 | 2/4 | 1 | 2 | ≥ 32 | 4/4 | 16 |
| 6788 | P. weihenstephanensis | 3A | Neg | ≤ 0.12 | ≤ 4 | ≤ 0.5 | 16 | ≤ 0.06 | 4/4 | 1/4 | 2 | 2 | 2 | 2/4 | 2 |
| 6789 | P. lactis | 3A | Neg | 4 | ≤ 4 | ≤ 0.5 | 32 | 0.12 | 4/4 | 2/4 | 8 | 2 | 2 | 2/4 | 8 |
| 6790 | P. fragi | 3A | Neg | ≤ 0.12 | ≤ 4 | ≤ 0.5 | 8 | ≤ 0.06 | 4/4 | ≤ 0.5/4 | 1 | 2 | 2 | 4/4 | ≤ 0.5 |
| 6791 | P. fragi | 3A | Neg | ≤ 0.12 | ≤ 4 | ≤ 0.5 | 8 | ≤ 0.06 | 2/4 | ≤ 0.5/4 | 0.5 | 2 | 2 | 2/4 | ≤ 0.5 |
| 6792 | P. fragi | 3A | Neg | ≤ 0.12 | ≤ 4 | ≤ 0.5 | 16 | ≤ 0.06 | 4/4 | 4/4 | 2 | 2 | 8 | 4/4 | ≤ 0.5 |
| 6793 | P. cerasi | 3A | Neg | ≤ 0.12 | ≤ 4 | ≤ 0.5 | 8 | ≤ 0.06 | 2/4 | 1/4 | 2 | 2 | 4 | 2/4 | 2 |
| 6794 | P. migulae | 3A | Neg | 1 | ≤ 4 | ≤ 0.5 | 64 | 0.12 | 2/4 | ≤ 0.5/4 | 0.5 | 2 | 1 | 2/4 | 1 |
| 6795 | P. veronii | 3A | Neg | 2 | ≤ 4 | ≤ 0.5 | 64 | 0.12 | 8/4 | 2/4 | 0.5 | 2 | 8 | 4/4 | 2 |
| 6796 | P. migulae | 3A | Neg | 0.5 | ≤ 4 | ≤ 0.5 | 64 | 0.12 | 4/4 | ≤ 0.5/4 | 0.5 | 2 | 1 | 2/4 | 1 |
| 7440 | P. canadensis | 1 | Neg | 16 | ≤ 4 | ≤ 0.5 | 64 | 0.25 | 4/4 | 1/4 | ≥ 16 | 2 | 4 | 4/4 | 8 |
| 7441 | P. lactis | 1 | Neg | 4 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 4/4 | 1/4 | ≥ 16 | 2 | 2 | 2/4 | 16 |
| 7445 | P. lactis | 1 | Neg | 16 | ≤ 4 | 4 | 64 | 0.25 | 8/4 | 2/4 | ≥ 16 | 2 | 4 | 4/4 | 16 |
| 7446 | P. lactis | 1 | Neg | 8 | ≤ 4 | ≤ 0.5 | 64 | 0.25 | 4/4 | 2/4 | ≥ 16 | 2 | 4 | 2/4 | 16 |
| 7447 | P. marginalis | 4 | Neg | 4 | ≤ 4 | ≤ 0.5 | 64 | 0.12 | 8/4 | 2/4 | 4 | 2 | ≥ 32 | 4/4 | 8 |
| 7448 | P. gessardii | 4 | Neg | 16 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 8/4 | 2/4 | 1 | 2 | 16 | 4/4 | 16 |
| 7450 | P. lactis | 4 | Neg | 16 | ≤ 4 | ≤ 0.5 | 64 | 0.12 | 8/4 | 1/4 | 0.5 | 2 | 4 | 4/4 | ≥ 32 |
| 7451 | P. lactis | 4 | Neg | 16 | ≤ 4 | ≤ 0.5 | 64 | 0.25 | 4/4 | 2/4 | ≥ 16 | 2 | 4 | 4/4 | 16 |
| 7452 | P. lactis | 4 | Neg | 16 | ≤ 4 | 1 | 64 | 0.5 | 4/4 | 2/4 | 2 | 2 | 4 | 2/4 | 16 |
| 7453 | P. lactis | 4 | Neg | 8 | ≤ 4 | ≤ 0.5 | 64 | 0.25 | 4/4 | 2/4 | 4 | 2 | 8 | 4/4 | 16 |
| 7454 | P. lactis | 4 | Neg | 8 | ≤ 4 | ≤ 0.5 | 64 | 0.12 | 8/4 | 2/4 | ≥ 16 | 2 | 2 | 2/4 | 16 |
| 7478 | P. migulae | 1 | Neg | 1 | ≤ 4 | ≤ 0.5 | 64 | 0.12 | 4/4 | ≤ 0.5/4 | 0.5 | 2 | 2 | 4/4 | 1 |
| 7479 | P. weihenstephanensis | 1 | Neg | 0.25 | ≤ 4 | ≤ 0.5 | 16 | ≤ 0.06 | 4/4 | 1/4 | 1 | 2 | 2 | 1/4 | 1 |
| 7480 | P. marginalis | 4 | Neg | 0.5 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 8/4 | 1/4 | 1 | 2 | 4 | 1/4 | 1 |
| 7480 | P. marginalis | 1 | Neg | 2 | ≤ 4 | ≤ 0.5 | 64 | ≤ 0.06 | 4/4 | 1/4 | ≥ 16 | 2 | 2 | 2/4 | 4 |
| Microorganism   | 1st Column | 2nd Column | 3rd Column | 4th Column | 5th Column | 6th Column | 7th Column | 8th Column | 9th Column | 10th Column |
|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| *P. helleri*   | Neg        | ≤ 0.12     | ≤ 4        | ≤ 0.5      | 16         | 0.12       | 4/4        | 2/4        | 8          | 2           | 4          | 2/4        | ≤ 0.5      |
| *P. tolaasii*  | 1          | Neg        | 4          | ≤ 4        | ≤ 0.5      | 64         | ≤ 0.06     | 8/4        | 1/4        | 1           | 2          | 8          | 4/4        | 4          |
| *P. weihenstephanensis* | Neg 1 | 0.5          | ≤ 4        | ≤ 0.5      | 16         | 0.12       | 4/4        | 2/4        | 2          | 2           | 2          | 2/4        | 1          |
| *P. weihenstephanensis* | Neg 1 | ≤ 0.12     | ≤ 4        | ≤ 0.5      | 16         | 0.12       | 4/4        | 2/4        | 1          | 2           | 4          | 4/4        | 1          |
| *P. canadensis* | 1          | Neg        | 4          | ≤ 4        | ≤ 0.5      | 64         | 0.25       | 8/4        | 1/4        | ≥ 16        | 2          | 8          | 4/4        | 8          |
| *P. helmanticaensis* | Neg 1 | 1          | ≤ 4        | ≤ 0.5      | 64         | 0.12       | 16/4       | 1/4        | 1          | 2           | 4          | 4/4        | ≤ 0.5      |
| *P. koreensis* | Neg 1     | 0.25       | ≤ 4        | ≤ 0.5      | 64         | 0.12       | 8/4        | 1/4        | 0.5        | 2           | ≥ 32       | 4/4        | 2          |
| *P. veronii*   | Neg 1     | 2          | ≤ 4        | ≤ 0.5      | 64         | 0.12       | 8/4        | 1/4        | 0.5        | 2           | 4          | 2/4        | 2          |
| *P. corrugata* | 1          | Neg        | 0.5        | ≤ 4        | ≤ 0.5      | 64         | ≤ 0.06     | 16/4       | ≤ 0.5/4    | 0.5        | 2           | 4          | 4/4        | 1          |
| *P. weihenstephanensis* | Neg 1 | 0.5        | ≤ 4        | ≤ 0.5      | 16         | 0.25       | 4/4        | 4/4        | 1          | 2           | 4          | 4/4        | ≤ 0.5      |
| *P. tolaasii*  | Neg 1     | 4          | ≤ 4        | ≤ 0.5      | 64         | ≤ 0.06     | 8/4        | 1/4        | 1          | 2           | 4          | 4/4        | 4          |
| *P. migulae*   | Neg 1     | 0.5        | ≤ 4        | ≤ 0.5      | 64         | 0.12       | 8/4        | ≤ 0.5/4    | 1           | 2           | 2          | 2/4        | 1          |
| *P. turukhanensis* | Neg 1 | 0.5       | ≤ 4        | ≤ 0.5      | 64         | ≤ 0.06     | 8/4        | 1/4        | 0.5        | 2           | ≥ 32       | 4/4        | 1          |
| *P. silesiensis* | 4 Neg 4 | ≤ 0.12     | ≤ 4        | ≤ 0.5      | 64         | ≤ 0.06     | 4/4        | ≤ 0.5/4    | 1           | 2           | 4          | 2/4        | 1          |
| *P. weihenstephanensis* | Neg 1 | 0.5        | ≤ 4        | ≤ 0.5      | 16         | ≤ 0.06     | 4/4        | 4/4        | 1          | 2           | 4          | 2/4        | ≤ 0.5      |
| *P. cerasi*    | Neg 1     | ≤ 0.12     | ≤ 4        | ≤ 0.5      | 8          | ≤ 0.06     | 4/4        | 1/4        | 4           | 2           | 2          | 4/4        | 2          |
| *P. gessardi*  | 4 Neg 4   | 8          | ≤ 4        | ≤ 0.5      | 64         | ≤ 0.06     | 8/4        | 1/4        | 1           | 2           | 8          | 2/4        | 2          |
| *P. weihenstephanensis* | Neg 1 | 1          | ≤ 4        | ≤ 0.5      | 16         | 0.12       | 4/4        | 4/4        | 1           | 2           | 4          | 4/4        | 2          |
| *P. cerasi*    | Neg 1     | 0.25       | ≤ 4        | ≤ 0.5      | 16         | ≤ 0.06     | 4/4        | 1/4        | 1           | 2           | 4          | 4/4        | 2          |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 7515 | P. weihen stephanensis | 1 | Neg | ≤0.25 | ≤4 | ≤0.5 | 32 | 0.5 | 8/4 | 4/4 | 1 | 2 | 8 | 8/4 | 1 |
| 7516 | P. gessardi | 1 | Neg | ≤4 | ≤4 | ≤0.5 | 64 | ≤0.06 | 4/4 | 1/4 | 1 | 2 | 4 | 2/4 | 4 |
| 7517 | P. koreensis | 1 | Neg | ≤1 | ≤8 | ≤0.5 | 64 | ≤0.06 | 16/4 | 1/4 | 2 | 2 | 8 | 8/4 | 2 |
| 7518 | P. weihen stephanensis | 1 | Neg | ≤0.12 | ≤4 | ≤0.5 | 8 | ≤0.06 | 2/4 | 1/4 | 1 | 2 | 2 | 1/4 | 1 |
| 7519 | P. koreensis | 1 | Neg | ≤0.25 | ≤4 | ≤0.5 | 32 | 0.12 | 8/4 | 1/4 | 1 | 2 | 8 | 4/4 | 2 |
| 7520 | P. marginalis | 1 | Neg | ≤4 | ≤4 | ≤0.5 | 64 | 0.25 | 8/4 | 1/4 | ≥16 | 2 | 4 | 4/4 | 4 |
| 7521 | P. canadensis | 1 | Neg | ≤4 | ≤4 | ≤0.5 | 64 | 0.25 | 8/4 | 1/4 | ≥16 | 2 | 4 | 4/4 | 8 |
| 7524 | P. marginalis | 1 | Neg | ≤4 | ≤4 | ≤0.5 | 64 | 0.25 | 8/4 | 2/4 | ≥16 | 2 | 8 | 8/4 | 4 |
| 7528 | P. lactis | 4 | Neg | ≤0.12 | ≤4 | ≤0.5 | 64 | 0.12 | 4/4 | 1/4 | 4 | 2 | 2 | 2/4 | 8 |
| 7529 | P. weihen stephanensis | 1 | Neg | ≤0.12 | ≤4 | ≤0.5 | 16 | 0.12 | 4/4 | 4/4 | 4 | 2 | 4 | 4/4 | ≤0.5 |
| 7531 | P. cerasi | 1 | Neg | ≤0.12 | ≤4 | ≤0.5 | 8 | ≤0.06 | 4/4 | 0.5/4 | 2 | 2 | 2 | 2/4 | 0.5 |
| 7532 | P. silesiensis | 4 | Neg | ≤0.12 | ≤4 | ≤0.5 | 64 | ≤0.06 | 2/4 | ≤0.5/4 | 1 | 2 | 2 | 2/4 | 1 |
| 7536 | P. weihen stephanensis | 1 | Neg | ≤0.12 | ≤4 | ≤0.5 | 8 | ≤0.06 | 2/4 | 1/4 | 2 | 2 | 1 | 1/4 | ≤0.5 |
| 7539 | P. flavescentis | 4 | Neg | 1 | ≤4 | ≤0.5 | 16 | ≤0.06 | 8/4 | ≤0.5/4 | 1 | 2 | 2 | 2/4 | ≤0.5 |
| 7540 | P. fragi | 1 | Neg | ≤0.12 | ≤4 | ≤0.5 | 16 | ≤0.06 | 2/4 | 1/4 | 1 | 2 | 4 | 4/4 | ≤0.5 |
| 7541 | P. flavescentis | 4 | Neg | 2 | ≤4 | ≤0.5 | 16 | ≤0.06 | 8/4 | ≤0.5/4 | 1 | 2 | 2 | 2/4 | ≤0.5 |
| 7542 | P. cerasi | 1 | Neg | ≤0.12 | ≤4 | ≤0.5 | 8 | ≤0.06 | 2/4 | 1/4 | 4 | 2 | 2 | 2/4 | 2 |
| 7543 | P. gessardi | 1 | Neg | 8 | ≤4 | ≤0.5 | 32 | ≤0.06 | 4/4 | 1/4 | 1 | 2 | 4 | 2/4 | 8 |
| 7544 | P. marginalis | 4 | Neg | 4 | ≤4 | ≤0.5 | 64 | 0.12 | 4/4 | ≤0.5/4 | 8 | 2 | 2 | 2/4 | 4 |
| 7545 | P. helleri | 1 | Neg | ≤0.12 | ≤4 | ≤0.5 | 8 | ≤0.06 | 4/4 | 2/4 | 2 | 2 | 2 | 2/4 | ≤0.5 |
| Microorganism          | Type | Neg | ≤0.12 | ≤4   | ≤0.5 | 64   | 0.06 | 4/4 | 1/4 | 1   | 2   | 4/4 | 2/4 | 1   | 2   | 2   | 2/4 | 1  |
|------------------------|------|-----|--------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| P. weihenstephanensis  | 1    | Neg | ≤0.12  | ≤4   | ≤0.5 | 8    | 0.12 | 4/4 | 2/4 | 1   | 2   | 2   | 2   | 2   | 2/4 | 1   | 2   | ≤0.5 |    |
| P. rhodesiae           | 1    | Neg | 1     | ≤4   | ≤0.5 | 64   | ≤0.06| 4/4 | 1/4 | 1   | 2   | 2   | 2   | 4   | 2   |    |    |    |    |
| P. fragi               | 1    | Neg | 0.12  | ≤4   | ≤0.5 | 16   | 0.06 | 4/4 | 2/4 | 8   | 2   | 4   | 4   | 2   |    |    |    |    |    |
| P. weihenstephanensis  | 1    | Neg | 0.25  | ≤4   | ≤0.5 | 16   | 0.12 | 4/4 | 2/4 | 1   | 2   | 2   | 2   | 2   | 1/4 | 1   | 2   | ≤0.5 |    |
|                        | 1    | Neg | 0.12  | ≤4   | ≤0.5 | 8    | 0.12 | 4/4 | 2/4 | 1   | 2   | 2   | 1/4 | 1   | 1/4 | 1   |    |    |    |
|                        | 1    | Neg | 0.25  | ≤4   | ≤0.5 | 16   | 0.12 | 4/4 | 2/4 | 1   | 2   | 2   | 2   | 2/4 | 1   |    |    |    |    |
|                        | 1    | Neg | 0.5   | ≤4   | ≤0.5 | 8    | 0.12 | 4/4 | 2/4 | 2   | 2   | 1   | 1/4 | 1   | 1   |    |    |    |    |
|                        | 1    | Neg | 0.5   | ≤4   | ≤0.5 | 8    | ≤0.06| 4/4 | 4/4 | 4   | 2   | 4   | 4   | 4   | 4   | ≤0.5|    |    |    |
| P. gessardi           | 1    | Neg | 8     | ≤4   | ≤0.5 | 64   | ≤0.06| 8/4 | 1/4 | 0.5 | 2   | 4   | 2/4 | 2   |    |    |    |    |    |
|                        | 4    | Neg | 8     | ≤4   | ≤0.5 | 64   | ≤0.06| 8/4 | 1/4 | 1   | 2   | 16  | 2/4 | 4   |    |    |    |    |    |
|                        | 1    | Neg | 0.25  | ≤4   | ≤0.5 | 16   | 0.12 | 4/4 | 4/4 | 4   | 2   | 8   | 4/4 | 2   |    |    |    |    |    |
| P. corrugata          | 4    | Neg | 0.5   | ≤4   | ≤0.5 | 32   | ≤0.06| 8/4 | ≤0.5/4| 0.5 | 2   | 4   | 2/4 | ≤0.5|    |    |    |    |    |
|                        | 4    | Neg | 8     | ≤4   | ≤0.5 | 64   | 0.12 | 8/4 | 1/4 | 0.5 | 2   | 8   | 4/4 | 2   |    |    |    |    |    |
| P. koreensis          | 4    | Neg | 1     | ≤4   | ≤0.5 | 32   | ≤0.06| 4/4 | 1/4 | 0.5 | 2   | 8   | 4/4 | 2   |    |    |    |    |    |
|                        | 4    | Neg | 2     | ≤4   | ≤0.5 | 32   | ≤0.06| 4/4 | 1/4 | 0.5 | 2   | 4   | 2/4 | 1   |    |    |    |    |    |
| P. silesiensis        | 4    | Neg | 0.25  | ≤4   | ≤0.5 | 64   | ≤0.06| 4/4 | 1/4 | 1   | 2   | 4   | 4/4 | 1   |    |    |    |    |    |
| P. lactis             | 4    | Neg | 4     | ≤4   | ≤0.5 | 64   | ≤0.06| 4/4 | 1/4 | ≥16| 2   | 2   | 2/4 | 4   |    |    |    |    |    |
|                        | 4    | Neg | 4     | ≤4   | ≤0.5 | 64   | 0.12 | 8/4 | 1/4 | 4   | 2   | 4   | 4   | 2   |    |    |    |    |    |
| P. turukhanskensis    | 4    | Neg | 0.25  | ≤4   | ≤0.5 | 32   | ≤0.06| 4/4 | ≤0.5/4| 0.5 | 2   | 8   | 2   | ≤0.5|    |    |    |    |    |
|                        | 4    | Neg | ≤0.12 | ≤4   | ≤0.5 | 32   | 0.12 | 4/4 | 1/4 | 0.5 | 2   | 16  | 2/4 | ≤0.5|    |    |    |    |    |
|    | Microorganisms 2021, 9, 207 | 7572 | 7573 | 7574 | 7575 | 7576 | 7577 | 7578 | 7579 | 7580 | 7582 | 7584 | 7585 | 7601 |
|----|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|    |                             | P. helman              | P. corrugata          | P. gessardii          | P. canadensis          | P. lactis          | P. lactis          | P. turukhanskensis | P. migulae          | P. marginalis         | P. corrugata          | P. gessardii          | P. lactis          |
|    |                             | ticensis               |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
|    |                             | 4                   | Neg              | 4                | Neg              | 4                 | Neg              | 2                 | Neg              | 4                 | Neg              | 8                 | Neg              |
|    |                             | 7572                |                  | 7573             |                  | 7574             |                  | 7575             |                  | 7576             |                  | 7577             |                  |
|    |                             | 1                  | ≤ 4              | 4                | ≤ 4              | 8                | ≤ 4              | 2                | ≤ 4              | 4                | ≤ 4              | 8                | ≤ 4              |
|    |                             | 0.5                |                  | 0.5              |                  | 0.5              |                  | 0.5              |                  | 0.5              |                  | 0.5              |                  |
|    |                             | 32                 |                  | 64               |                  | 32               |                  | 64               |                  | 64               |                  | 64               |                  |
|    |                             | ≤ 0.06             |                  | 0.12             |                  | ≤ 0.06           |                  | 0.12             |                  | 0.12             |                  | 0.12             |                  |
|    |                             | 16/4               |                  | 8/4              |                  | 4/4              |                  | 8/4              |                  | 8/4              |                  | 8/4              |                  |
|    |                             | ≤ 0.5/4            |                  | ≤ 0.5/4          |                  | ≤ 0.5/4          |                  | ≤ 0.5/4          |                  | ≤ 0.5/4          |                  | ≤ 0.5/4          |                  |
|    |                             | 0.5                |                  | 2                |                  | 4                |                  | 2                |                  | 2                |                  | 8                |                  |
|    |                             | 4                  |                  | 4                |                  | 4                |                  | 2                |                  | 2                |                  | 2/4              |                  |
|    |                             | 1                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|    |                             |                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

**Note:** - Neg: Negative
- ≤: Less than or equal to
- ≥: Greater than or equal to
- \( \leq \): Less than or equal to
- \( \geq \): Greater than or equal to
Table S6. Taxonomic profiling based on ribosomal Multilocus Sequence Typing (rMLST). The isolate name, corresponding best match in the rMLST database and percentage support as well as best BLAST match according to partial 16S rRNA gene are show. For three isolates no species were given in rMLST, only 100% match to *Pseudomonas*.

| Isolate  | Best match                      | % support | BLAST 16S best match       |
|----------|---------------------------------|-----------|---------------------------|
| MF6776   | *P. baetica*                    | 20        | *P. corrugata*             |
| MF5691   | *P. brenneri*                   | 97        | *P. gessardii*             |
| MF6768   | *P. brenneri*                   | 96        | *P. gessardii*             |
| MF6772   | *P. brenneri*                   | 98        | *P. gessardii*             |
| MF6784   | *P. brenneri*                   | 98        | *P. gessardii*             |
| MF6787   | *P. brenneri*                   | 98        | *P. gessardii*             |
| MF6754   | *P. brenneri/P. proteolytica*    | 86/11     | *P. gessardii*             |
| MF7448   | *P. brenneri/P. proteolytica*    | 89/6      | *P. gessardii*             |
| MF7446   | *P. carnis*                     | 100       | *P. lactis*                |
| MF7454   | *P. carnis*                     | 100       | *P. lactis*                |
| MF6751   | *P. carnis/P. fluorescens*      | 50/50     | *P. lactis*                |
| MF2830   | *P. fluorescens*                | 100       | *P. lactis*                |
| MF6746   | *P. fluorescens*                | 100       | *P. lactis*                |
| MF6752   | *P. fluorescens*                | 100       | *P. lactis*                |
| MF7441   | *P. fluorescens*                | 100       | *P. lactis*                |
| MF7450   | *P. fluorescens*                | 100       | *P. lactis*                |
| MF7451   | *P. fluorescens*                | 98        | *P. lactis*                |
| MF7452   | *P. fluorescens*                | 100       | *P. lactis*                |
| MF5694   | *P. haemolytica*                | 100       | *P. canadensis*            |
| MF6753   | *P. haemolytica*                | 100       | *P. canadensis*            |
| MF6766   | *P. haemolytica*                | 100       | *P. canadensis*            |
| MF7440   | *P. haemolytica*                | 100       | *P. canadensis*            |
| MF6755   | *P. haemolytica/P. veronii*     | 88/4      | *P. canadensis*            |
| MF7445   | *P. lactis*                     | 100       | *P. lactis*                |
| MF7453   | *P. paralactis/P. poae/P. synxantha* | 87/5/5 | *P. lactis*                |
| MF6762   | *P. psychrophila*               | 100       | *P. weihenstephanensis*    |
| MF7447   | *P. simiae*                     | 100       | *P. marginalis*            |
| MF6747   | *P. veronii*                    | 25        | *P. canadensis*            |
| MF2846   | *Pseudomonas*                   | 100       | *P. lactis*                |
| MF2857   | *Pseudomonas*                   | 100       | *P. lactis*                |
| MF6767   | *Pseudomonas*                   | 100       | *P. lactis*                |

* 12 % to *P. antarctica*, *P. costantinii*, *P. fluorescens*, *P. orientalis*, *P. reactans* and *P. tolaassii*