**S1 Table. Primer used in this study for DGGE and qPCR analyses.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | PCR target | Primer pair | Sequence (5‘-3‘) | Annealing temp. (°C) | Reference |
| *DGEE* | ***16S rRNA gene fragment*** | | | | |
| *Bacteria* | F984GC\*  R1378 | GC clamp\* GAACGCGAAGAACCTTAC  CGGTGTGTACAAGGCCCGGGAACG | 53 | Nübel *et al.* [1]  Heuer *et al.* [2] |
| *Pseudomonas* | F311Ps  R1459Ps | CTGGTCTGAGAGGATGATCAGT  AATCACTCCGTGGTAACCGT | 63 | Milling *et al.* [3] |
| *Alphaproteobacteria* | F203α  R1494 | CCGCATACGCCCTACGGGGGAAAGATTT  CTACGGNTACCTTGTTACGAC | 56 | Gomes *et al.*  [4]  Weisburg *et al.* [5] modified by Heuer *et al.* [6] |
| *Betaproteobacteria* | F948β | CGCACAAGCGGTGGATGA | 64 | Gomes *et al.* [4] |
| *Actinobacteria* | F243HGC | GGATGAGCCCGCGGCCTA | 63 | Heuer *et al.* [2] |
| *Bacillus* | Bac F | GGGAAACCGGGGCTAATACCGGAT | 65 | Garbeva *et al.* [7] |
| *Streptomyces* | F126  R1423 | GCCCTGCACTCTGGGACAAGC  GTTAGGCCACCGGCTTCG | 62 | Weinert *et al.* [8] |
| ***Fungal ITS fragment*** | | | | |
| *Fungi nested* | ITS1F  ITS4 | CTTGGTCATTTAGAGGAAGTAA  TCCTCCGCTTATTGATATGC | 55 | Anderson & Cairney [9] |
| *Fungi* | ITS1FGC\*\* | GCclamp\*\* CTTGGTCATTTAGAGGAAGTAA | 55 | Anderson & Cairney [9] |
| ITS2 | GCTGCGTTCTTCATCGATGC |  |  |
| qPCR | *Bacteria* | Bact1369F  Prok1492R  TM1389F  (5’FAM,3’TAMRA) | CGGTGAATACGTTCYCGG  GGWTACCTTGTTACGACTT  CTTGTACACACCGCCCGTC | 56 | Suzuki *et al.* [10] |
| *Fungi* | ITS1  ITS4 | TCCGTAGGTGAACCTGCGG  TCCTCCGCTTATTGATATGC | 50 | Gschwendtner *et al.* [11]; modified according to Vogel *et al.* [12] |
| \*GC clamp bacteria: CGC-CCG-GGG-CGC-GCC-CCG-GGC-GGG-GCG-GGG-GCA-CGG-GGG  \*\*GC clamp Fungi: CGC-CCG-CCG-CGC-GCG-GCG-GGC-GGG-GCG-GGG-GCA-CGG-GGG-G | | | | | |

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