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| **Additional file 12: Table S1** | | |
| Primers used for bacterial qPCR. | | |
| **Bacterial 16S or 23S**  **rRNA target** | **Primer** | **Sequence (5'-3')** |
| *Eubacteria* (total bacteria) | Forward | ACTCCTACGGGAGGCAGCAGT |
| Reverse | ATTACCGCGGCTGCTGGC |
| *Lactobacillus* | Forward | AGCAGTAGGGAATCTTCCA |
| Reverse | CACCGCTACACATGGAG |
| *Bacteroidetes* | Forward | GGARCATGTGGTTTAATTCGATGAT |
| Reverse | AGCTGACGACAACCATGCAG |
| *Enterobacteriaceae* | Forward | TGCCGTAACTTCGGGAGAAGGCA |
| Reverse | TCAAGGCTCAATGTTCAGTGTC |
| *Clostridium butyricum* | Forward | GTGCCGCCGCTAACGCATTAAGTAT |
| Reverse | ACCATGCACCACCTGTCTTCCTGCC |
| *Faecalibacterium prausnitzii* | Forward | GATGGCCTCGCGTCCGATTAG |
| Reverse | CCGAAGACCTTCTTCCTCC |