

Table S1. Primer pairs used for the quantification of total bacterial load and microbial phyla [10].

Investigated bacterial group	Primer name and sequence (5'-3')	Amplicon length (bp)	Annealing temperature (°C)
All bacteria	F: ACTCCTACGGGAGGCAGCAG R: ATTACCGCGGCTGCTGG	200	60
<i>Firmicutes</i>	F: ATGTGGTTTAATTCGAAGCA R: AGCTGACGACAACCATGCAC	126	62
<i>Bacteroidetes</i>	F: CATGTGGTTTAATTCGATGAT R: AGCTGACGACAACCATGCAG	126	62
<i>Actinobacteria</i>	F: CGCGGCCTATCAGCTTGTTG R: CCGTACTCCCCAGGCGGGG	600	67
<i>Proteobacteria</i>	F: CATGACGTTACCCGCAGAAGAAG R: CTCTACGAGACTCAAGCTTGC	195	63

Table S2. Primer pairs used for the quantification of microbial genera [10].

Investigated bacterial group	Primer name and sequence (5'-3')	Amplicon length (bp)	Annealing temperature (°C)
<i>Akkermansia</i>	F: CAGCACGTGAAGGTGGGGAC R: CCTTGCGGTTGGCTTCAGAT	329	50
<i>Bacillus</i>	F: GCAACGAGCGCAACCCTTGA R: TCATCCCCACCTTCCTCCGGT	92	68
<i>Bacteroides</i>	F: GAGAGGAAGGTCCCCAC R: CGCTACTTGGCTGGTTCAG	106	60
<i>Bifidobacterium</i>	F: CTCCTGGAAACGGGTGG R: GGTGTTCTTCCCGATATCTACA	550	55
<i>Clostridium</i>	F: AAAGGAAGATTAATACCGCATAA R: ATCTTGCGACCGTACTCCCC	722	57
<i>Escherichia-Shigella</i>	F: GAGTAAAGTTAATACCTTTGCTC R: ACTCAAGCTTGCCAGTATCAG	203	52
<i>Faecalibacterium</i>	F: GGAGGAAGAAGGTCTTCGG R: AATCCGCCTACCTCTGCACT	248	50
<i>Lactobacillus</i>	F: GAGGCAGCAGTAGGGAATCTTC R: GCCAGTTACTACCTCTATCCTTCTTC	126	65
<i>Prevotella</i>	F: GGTTCTGAGAGGAAGGTCCCC R: TCCTGCACGCTACTTGGCTG	121	60
<i>Ruminococcus</i>	F: GGCGGCYTRCTGGGCTTT R: ACCTTCCTCCGTTTTGTCAAC	451	63