

Supplementary Table S1. Primer sequences used for microbial qPCR analysis

Target	Forward Primer (5'–3')	Reverse Primer (5'–3')	Amplicon Size (bp)
Firmicutes	GGAGYATGTGGTTTAATTCGAAGCA	AGCTGACGACAACCATGCAC	150 bp
Bacteroidetes	GGARCATGTGGTTTAATTCGATGAT	AGCTGACGACAACCATGCAG	150 bp
Akkermansia muciniphila	CAGCACGTGAAGGTGGGGAC	CCTTGCGGTTGGCTTCAGAT	140 bp
Escherichia coli	CATGCCGCGTGTATGAAGAA	CGGGTAACGTCAATGAGCAAA	120 bp
Universal 16S rRNA	ACTCCTACGGGAGGCAGCAG	ATTACCGCGGCTGCTGG	150 bp