**Supplemental Table 2.** Real-time quantitative PCR primers and probe used to determine density of microbiota

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Target group | Primer/probe | Sequence (5'-3') | Annealing Temperature, ˚C | Reference |
| All bacteria | Uni331F  Uin797R | TCCTACGGGAGGCAGCAGT  GGACTACCAGGGTATCTATCCTGTT | 60 | Nadkarni et al., 2002 |
| *Bifidobacterium* spp*.* | Bif164F  Bif662R | GGGTGGTAATGCCGGATG  CCACCGTTACACCGGGAA | 60 | Kok et al., 1996 |
| *Bacteroides fragilis* | Bfragilis\_F  Bfragilis\_R  BF\_Probe\* | TCRGGAAGAAAGCTTGCT  CATCCTTTACCGGAATCCT  ACACGTATCCAACCTGCCCTTTACTCG | 56 | Tong et al., 2011 |
| *Clostridium difficile* | Cdiff\_F  Cdiff\_R | TTGAGCGATTTACTTCGGTAAAGA  CCATCCTGTACTGGCTCACCT | 58 | Rinttila et al. 2004 |
| *Clostridium perfringens* | s-Clper-F  ClPER-R | GGGGGTTTCAACACCTCC  GCAAGGGATGTCAAGTGT | 60 | Matsuda et al., 2009 |

\*Probe has FAM label on the 5’ end, minor groove binder and nonfluorescent quencher on the 3’ end