**TABLE S2.** Primer sequences used in real-time PCR

|  |  |  |
| --- | --- | --- |
| **Microbial target** | Strain used for standard curve | **Sequence 5´ 3¨** |
|
| *Bifidobacterium* spp. | *B. longum* CECT 4503 | CTCCTGGAAACGGGTGG (Forward) |
| GGTGTTCTTCCCGATATCTACA (Reverse) |
| *B. longum* | B longum CECT 4503 | TTCCAGTTGATCGCATGGTCT (Forward) |
| GGCTACCCGTCGAAGCCACG (Reverse) |
| *B. breve* | *B breve* CECT 4839 | CCGGATGCTCCATCACAC (Forward) |
| ACAAAGTGCCTTGCTCCCT (Reverse) |
| *B. dentium* | *B dentium* CECT 687 | ATCCCGGGGGTTCGCCT (Forward) |
| GAAGGGCTTGCTCCCGA (Reverse) |
| *B. bifidum* | *B bifidum* DSM 20456 | CCACATGATCGCATGTGATTG (Forward) |
| CCGAAGGCTTGCTCCCAAA (Reverse) |
| *B. catenulatum* | *B. catenulatum* DSM 16992 | GCCGGATGCTCCGACTCCT (Forward) |
| ACCCGAAGGCTTGCTCCCGAT (Reverse) |
| *B. adolescentes* | *B adolescentes* CECT 5781 | CTCCAGTTGGATGCATGTC (Forward) |
| CGAAGGCTTGCTCCCAGT (Reverse) |
| *Lactobacillus* | *L. paracasei* CNCM-I-4034 | TGGATGCCTTGGCACTAGGA (Forward) |
| AAATCTCCGGATCAAAGCTTAC (Reverse) |
| *Bacteroides fragilis* | *Bacteroides fragilis* DSM 2151 | GAGAGGAAGGTCCCCCAC (Forward) |
| CGCTACTTGGCTGGTTCAG (Reverse) |
| *Clostridium difficile* | *Clostridium difficile* CECT 531 | TTGAGCGATTTACTTCGGTAAAGA (Forward) |
| TGTACTGGCTCACCTTTGATATTCA (Reverse) |
| *Lactobacillus rhamnosus* CNCM I-4036 | *Lactobacillus rhamnosus* CNCM I-4036 | TGGCACTCACTGCAATTCGT (Forward) |
| GATGCTTTGGCGTTGGTGTA (Reverse) |