**Supplementary figures**

A picture containing text

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Diagram

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**Figure S1** Alignment of nucleotide sequences of 16S rRNA genes of six bacterial genera for specific primer pairs design. 16S rRNA gene sequences of *Bacteroides* (*Bacteroides acidfaciens* and *Bacteroides fragilis*), *Lactobacillaceae* (*Lactobacillus casei*, *Lactobacillus rhamnosus*, *Pediococcus acidilactici* and *Pediococcus claussenii*), *E. coli* (*E. coli* strain 13A and *E. coli* strain RCB249), *Enterococcus* (*Enterococcus faecalis* and *Enterococcus faecium*), *Streptococcus* (*Streptococcus salivarius* and *Streptococcus thermophilus*) and *Bifidobacterium* (*Bifidobacterium angulatum* and *Bifidobacterium longum*) were aligned with DNAMAN8.0. The yellow frames show the regions selected for primer design.

Chart, diagram

Description automatically generated

**Figure S2** The standard curves for six target bacteria genera. The number of target copies on a log-scaled X-axis were plotted against the Ct values on the Y-axis. Linear regression equations of the standard curves were shown in figures. Vertical bars represent the standard deviation of three technical replicates.