

Table S2. Lactic acid bacteria strains used in this work.

| | Organism name | Strain | Origin |
|----|------------------------------|---------------|---------------|
| 1 | <i>Lactobacillus gasseri</i> | TMT1 | Human feces |
| 2 | <i>Lactobacillus gasseri</i> | TMT2 | Human feces |
| 3 | <i>Lactobacillus gasseri</i> | TMT3 | Human feces |
| 4 | <i>Lactobacillus gasseri</i> | TMT4 | Human feces |
| 5 | <i>Lactobacillus gasseri</i> | TMT5 | Human feces |
| 6 | <i>Lactobacillus gasseri</i> | TMT6 | Human feces |
| 7 | <i>Lactobacillus gasseri</i> | TMT7 | Human feces |
| 8 | <i>Lactobacillus gasseri</i> | TMT8 | Human feces |
| 9 | <i>Lactobacillus gasseri</i> | TMT9 | Human feces |
| 10 | <i>Lactobacillus gasseri</i> | TMT11 | Human feces |
| 11 | <i>Lactobacillus gasseri</i> | TMT12 | Human feces |
| 12 | <i>Lactobacillus gasseri</i> | TMT13 | Human feces |
| 13 | <i>Lactobacillus gasseri</i> | TMT14 | Human feces |
| 14 | <i>Lactobacillus gasseri</i> | TMT15 | Human feces |
| 15 | <i>Lactobacillus gasseri</i> | TMT16 | Human feces |
| 16 | <i>Lactobacillus gasseri</i> | TMT17 | Human feces |
| 17 | <i>Lactobacillus gasseri</i> | TMT18 | Human feces |
| 18 | <i>Lactobacillus gasseri</i> | TMT19 | Human feces |
| 19 | <i>Lactobacillus gasseri</i> | TMT20 | Human feces |
| 20 | <i>Lactobacillus gasseri</i> | TMT21 | Human feces |
| 21 | <i>Lactobacillus gasseri</i> | TMT22 | Human feces |
| 22 | <i>Lactobacillus gasseri</i> | TMT23 | Human feces |
| 23 | <i>Lactobacillus gasseri</i> | TMT24 | Human feces |
| 24 | <i>Lactobacillus gasseri</i> | TMT25 | Human feces |
| 25 | <i>Lactobacillus gasseri</i> | TMT26 | Human feces |
| 26 | <i>Lactobacillus gasseri</i> | TMT27 | Human feces |
| 27 | <i>Lactobacillus gasseri</i> | TMT28 | Human feces |
| 28 | <i>Lactobacillus gasseri</i> | TMT29 | Human feces |
| 29 | <i>Lactobacillus gasseri</i> | TMT31 | Human feces |
| 30 | <i>Lactobacillus gasseri</i> | TMT32 | Human feces |
| 31 | <i>Lactobacillus gasseri</i> | TMT34 | Human feces |
| 32 | <i>Lactobacillus gasseri</i> | TMT35 | Human feces |
| 33 | <i>Lactobacillus gasseri</i> | TMT36 | Human feces |
| 34 | <i>Lactobacillus gasseri</i> | TMT38 | Human feces |
| 35 | <i>Lactobacillus gasseri</i> | TMT39 | Human feces |
| 36 | <i>Lactobacillus gasseri</i> | TMT40 | Human feces |