



**Figure S1** Growth curves of *Lac* (A), *S. aureus* (B), and *P. aeruginosa* (C) in nutrient broth with different proportion of MRS. (D) *P. aeruginosa* and *Lac* were mixed at a proportions of 1:1, 1:2, 1:3, 1:4, and 1:5, and then inoculated in nutrient broth with 20% MRS. 1, Co-culture under anaerobic conditions and the tested bacteria after co-culture under aerobic conditions; 2, co-culture and the tested bacteria after co-culture under anaerobic conditions; 3, co-culture and the tested bacteria after co-culture under aerobic conditions; 4, co-culture under aerobic conditions and the tested bacteria after co-culture under anaerobic conditions. (E) The tested bacteria and *Lac* (1:3) were mixed and co-cultured in nutrient broth with 20% MRS and incubated under aerobic or anaerobic conditions, respectively. Number of strains: *S. epidermidis*, 78; *K. pneumoniae*, 300; *S. aureus*, 303; *S. fonticola*, 324; *P. aeruginosa*, 341; *E. aerogenes*, 355; *K. oxytoca*, 357; *A. baumannii*, 363; *C. freundii*, 369; *S. marcescens*, 401; *E. cloacae*, 403; *S. maltophilia*, 405.

**Table S1** Primers for quantitative polymerase chain reaction

Gene name	Sequence	Product length (bp)
<i>GAPDH</i>	F: 5'-GGCGGAGATGATGACCCTTTT-3' R: 5'-GGTGACGGGCACCCTTGATA-3'	119
<i>ZO-1</i>	F: 5'-AAGGGCACTTCATACTCTAACCAT-3' R: 5'-GAGGTGGAAACCAACCTAAACA-3'	155
<i>E-cadherin</i>	F: 5'-CTGGGATGGAGGTAAAGTAAGCA-3' R: 5'-TCGGGATGAGCGGATAGCGT-3'	154
<i>NLRP3</i>	F: 5'-CCACCCTGAGTAGATGCTGTTTA-3' R: 5'-TGGGATGTTCTGTTTGCTGTT-3'	121
<i>TLR4</i>	F: 5'-ACACCTGCCTCTCCCTCCC-3' R: 5'-CTCCAGTCGGTCAGCAAACG-3'	185
<i>DAT</i>	F: 5'-GCGTCCCACCTTGCTTTGTCTC-3' R: 5'-CAAGTCTCCGTCCTGTTTCG-3'	274
<i>Iba-1</i>	F: 5'-CAGGAAACCTTCGCTCATCATT-3' R: 5'-TGGCAGGCAGTATCTGTCCACTC-3'	150