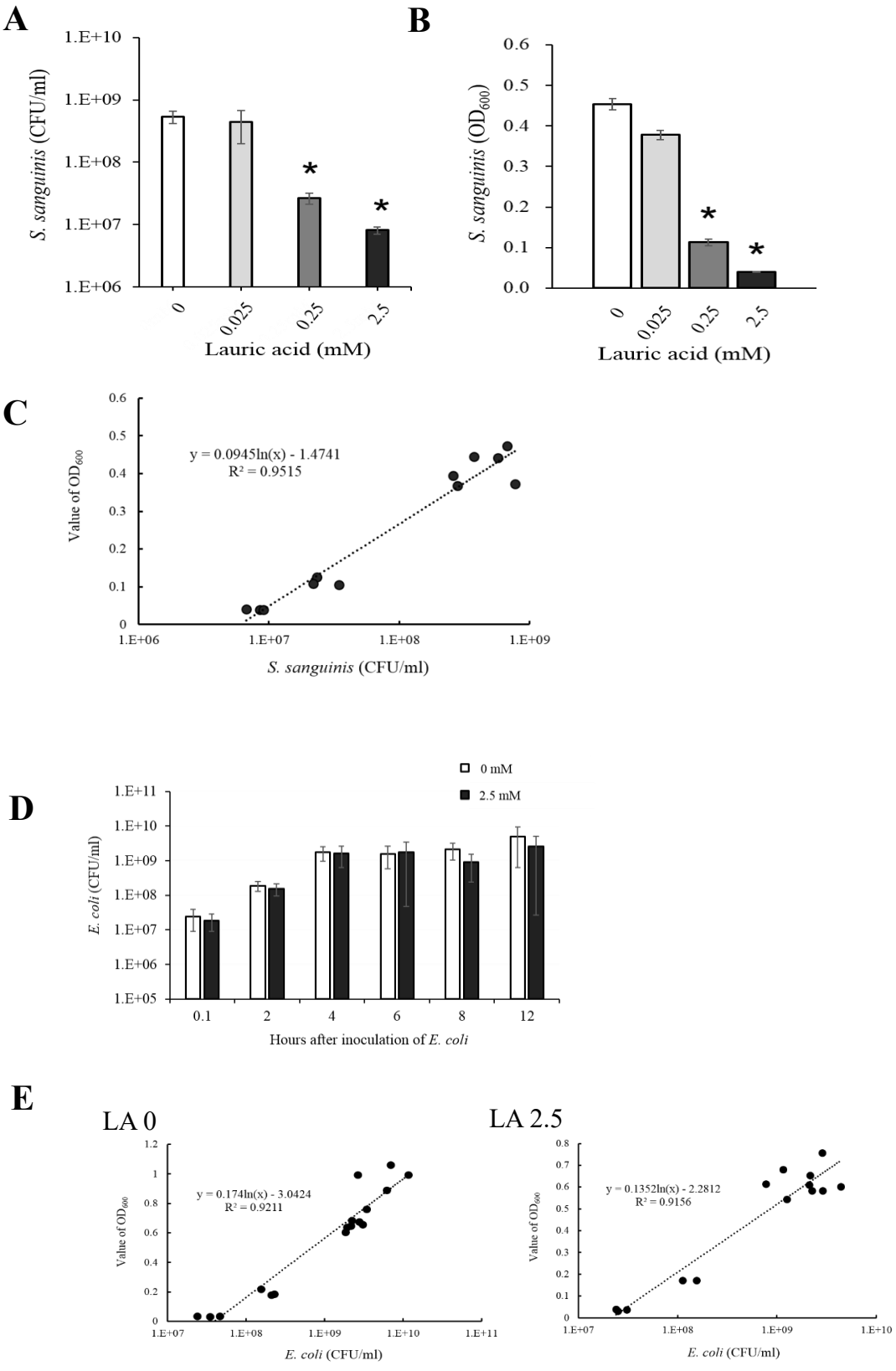
Supplementary data

Supplemental Fig. 1. Antimicrobial activity of LA assessed by colony counting methods and absorbance measurement in *Streptococcus sanguinis* and *Escherichia coli*. (A) to (C) Antimicrobial activity of LA assessed by colony counting methods and absorbance measurement in *Streptococcus sanguinis*. The TC containing 0, 0.025, 0.25, and 2.5 mM of LA was placed in the wells of 96-deep-well microplates. After incubation for 12 h at 37℃, *S. sanguinis* was inoculated into the top layer of the TC. After incubation for 12 h, the top layer containing the bacteria was harvested, and the number of *S. sanguinis* colonies was counted using the colony count method (A) and absorbance at OD_{600} was measured (B). Panel C shows the correlation between the numbers of bacteria using the colony count method and the OD_{600} values from the data of panels A and B. Data in (A) and (B) are presented as mean ± SEM of six samples (two independent experiments performed in triplicate). *$p < 0.05$ compared to the data of LA 0 at 12 h. (D) and (E) Antimicrobial activity of LA assessed using colony counting methods and absorbance measurement in *Escherichia coli*. The TC containing 0 and 2.5 mM of LA was placed in the wells of 96-deep-well microplates. After incubation for 12 h at 37℃, *E. coli* was inoculated into the top layer of the TC. After incubation for 12 h, the top layer containing the bacteria was harvested, and the number of *E. coli* colonies was counted using the colony count method (D). Panel E shows the correlation between the numbers of bacteria using the colony count method and the OD_{600} values in LA 0 (left panel) and LA 2.5 mM (right panel).. Data in (D) are presented as mean ± SEM of six samples (two independent experiments performed in triplicate).


A
1.E+10
1.E+09
1.E+08
1.E+07
1.E+06
S. sanguinis (CFU/ml)
*
*
0
0.025
0.25
2.5
Lauric acid (mM)
B
0.6
0.5
0.4
0.3
0.2
0.1
0.0
S. sanguinis (OD600)
*
*
0
0.025
0.25
2.5
Lauric acid (mM)
C
y = 0.0945ln(x) - 1.4741
R² = 0.9515
Value of OD600
1.E+06
1.E+07
1.E+08
1.E+09
S. sanguinis (CFU/ml)
D
0 mM
2.5 mM
1.E+11
1.E+10
1.E+09
1.E+08
1.E+07
1.E+06
1.E+05
E. coli (CFU/ml)
0.1
2
4
6
8
12
Hours after inoculation of E. coli
E
LA 0
y = 0.174ln(x) - 3.0424
R² = 0.9211
Value of OD600
1.E+07
1.E+08
1.E+09
1.E+10
1.E+11
E. coli (CFU/ml)
LA 2.5
y = 0.1352ln(x) - 2.2812
R² = 0.9156
Value of OD600
1.E+07
1.E+08
1.E+09
1.E+10
E. coli (CFU/ml)