

Supplementary data

Table 1. Antibiotic susceptibility test for LAC, LAC $\Delta$ *agr*, MW2, and MW2 $\Delta$ *agr*

Strain	Disk diffusion(30 $\mu$ g) zone diameter (mm)	Broth microdilution MIC( $\mu$ g/mL)
LAC	N/A	> 16 (R)
LAC $\Delta$ <i>agr</i>	N/A	> 64 (R)
MW2	N/A	> 64 (R)
MW2 $\Delta$ <i>agr</i>	N/A	>8 (R)

Abbreviations: MIC, minimal inhibitory concentration; N/A, not applicable

Table 2. Logarithmic calculation based on PLFA results

	Log (LAC $\Delta$ <i>agr</i> /LAC)	Error of Log (LAC $\Delta$ <i>agr</i> /LAC)	Log (MW2/MW2 $\Delta$ <i>agr</i> )	Error of Log (MW2/MW2 $\Delta$ <i>agr</i> )
12-methyl-tridecanoic acid (iso-C14:0)	0.146451	0.211533	-0.32311	0.027687
Pentadecanoic acid (C15:0)	-0.5592	0.166734	-0.248	0.121444
12-methyl-tetradecanoic acid (anteiso-C15:0)	-0.34955	0.075107	0.187676	0.039979
Hexadecanoic acid (C16:0)	-0.02803	0.011775	0.015723	0.202745
14-methyl-pentadecanoic acid (iso-C16:0)	0.149186	0.009193	-0.46317	0.085499
15-methyl-hexadecanoic acid (iso-	0.347043	0.208346	-0.05115	0.192755

C17:0)				
14-methyl-hexadecenoic acid (anteiso-C17:0)	0.355031	0.12334	0.341866	0.031692
16-methyl-heptadecanoic acid (iso-C18:0)	0	0.026802	-	-
Octadecanoic acid (C18:0)	0.17526	0.03927	-0.13085	0.028002
17-methyl-octadecanoic acid (iso-C19:0)	-0.19517	0.014294	-	-
16-methyl-octadecanoic acid (anteiso-C19:0)	-0.29031	0.025749	0.132988	0.227711
Nonadecanoic acid (C19:0)	0.094847	0.044718	-0.37186	0.026944
Eicosanoic acid (C20:0)	0.137964	0.030472	-0.13538	0.046588
12-methyl-tridecanoic acid (iso-C14:0)	0.146451	0.211533	-0.32311	0.027687