

Table S5. The ability of LAB cells to bind AA to the cell wall after 24 h of incubation at 37°C. The pH was 7.0, and the cell density was 10⁹ CFU/ml. Results are presented as the mean from two measurements ± standard deviation (SD). Underlined strains with the defined AA dosage were chosen for the further experiments under various conditions.

Strain	Initial concentration of AA 5 µg/ml	Initial concentration of AA 50 µg/ml
	Remaining concentration of AA [µg/ml]	
<i>L. brevis</i> 2	3.85±0.07	38.20±0.66
<i>L. lactis</i> 3	3.06±0.06	<u>23.62±0.21</u>
<i>L. brevis</i> 5	3.91±0.09	37.28±0.90
<i>L. brevis</i> 6	4.26±0.04	39.09±0.34
<i>P. acidilactici</i> 7	3.80±0.03	35.67±0.65
<i>P. acidilactici</i> 8	2.54±0.06	31.58±0.32
<i>L. mesenteroides</i> 10	3.56±0.03	28.01±0.53
<i>L. plantarum</i> 14	3.26±0.06	44.30±0.78
<i>P. acidilactici</i> 16	<u>1.93±0.10</u>	25.77±0.82
<i>L. plantarum</i> 17	4.17±0.05	36.57±0.48
<i>L. plantarum</i> 19	3.81±0.04	35.63±0.37
<i>P. pentosaceus</i> 21	2.64±0.03	29.90±0.63
<i>L. brevis</i> 22	2.61±0.08	27.29±0.94
<i>L. lactis</i> 25	3.00±0.07	23.56±0.56
<i>L. plantarum</i> 26	3.86±0.05	38.40±0.72
<i>L. fermentum</i> 30	2.58±0.06	29.34±0.84
<i>S. collinoides</i> 38	2.49±0.08	23.19±0.28
<i>L. plantarum</i> 39	3.34±0.05	39.36±0.42
<i>L. citreum</i> 40	3.70±0.09	31.22±0.85
<i>L. plantarum</i> 41	3.89±0.04	40.52±0.27
<i>L. pentosus</i> 42	2.55±0.04	31.86±0.51
<i>L. plantarum</i> 43	4.08±0.03	36.91±0.80
<i>L. citreum</i> 44	3.91±0.05	41.99±0.41
<i>L. brevis</i> 45	2.24±0.06	27.10±0.73
<i>L. brevis</i> 46	3.72±0.04	27.78±0.42
<i>L. plantarum</i> 47	3.83±0.09	39.12±0.89
<i>L. raffinolactis</i> 49	4.06±0.10	38.19±0.41
<i>L. citreum</i> 50	2.63±0.08	<u>23.54±0.39</u>
<i>L. pentosus</i> 51	2.45±0.02	27.97±0.63
<i>L. plantarum</i> 52	<u>2.23±0.03</u>	27.01±0.84
<i>L. plantarum</i> 53	4.13±0.04	36.18±0.38
<i>L. plantarum</i> 56	2.96±0.03	28.07±0.47
<i>L. casei</i> 12AN	4.62±0.06	37.51±0.49
<i>L. paracasei</i> OK-D	2.42±0.08	29.74±0.52
<i>P. parvulus</i> OK-S	3.94±0.04	45.08±0.77
<i>L. mesenteroides</i> 0994	3.02±0.02	23.87±0.84
<i>L. rhamnosus</i> 0997	<u>2.47±0.04</u>	28.68±0.34