

Table S4. The pairwise comparison of Average Amino Acid Identity (AAI) values for the genomes of *Leuconostoc suionicum* VITA-PB2 and related strains.

Genome	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1. <i>L. sp.</i> MTCC 10508	100															
2. <i>L. suionicum</i> UCMA20148	99.6	100														
3. <i>L. suionicum</i> VITA-PB2	99.0	99.1	100													
4. <i>L. suionicum</i> DSM 20241	99.3	99.5	98.7	100												
5. <i>L. suionicum</i> LT-38	99.3	99.5	98.7	100	100											
6. <i>L. mesenteroides</i> DSM 20346	95.7	95.9	95.7	95.7	95.7	100										
7. <i>L. mesenteroides</i> ATCC 19254	95.7	95.9	95.7	95.7	95.7	100	100									
8. <i>L. mesenteroides</i> DSM 20484	95.8	95.9	95.9	95.9	95.9	98.6	98.6	100								
9. <i>L. mesenteroides</i> NBRC 3349	95.5	95.5	95.6	95.3	95.4	98.0	98.0	98.6	100							
10. <i>L. mesenteroides</i> ATCC 8293	95.3	95.8	95.3	95.6	95.7	98.2	98.2	98.9	99.0	100						
11. <i>L. mesenteroides</i> ATCC 8293D-5	95.3	95.8	95.3	95.6	95.7	98.2	98.2	98.9	99.0	100	100					
12. <i>L. gelidum</i> DSM 19374	74.8	74.9	74.7	74.8	74.8	75.4	75.4	74.6	75.0	74.8	74.7	100				
13. <i>L. fallax</i> ATCC 700006	70.4	70.6	70.5	70.1	70.1	70.6	70.7	70.3	70.3	70.1	70.1	69.7	100			
14. <i>L. falckenbergense</i> DSM 5624	78.4	78.7	78.8	79.0	79.0	79.4	79.3	79.1	79.6	79.2	79.1	74.8	70.7	100		
15. <i>L. pseudomesenteroides</i> DSM 20193	78.2	78.4	78.3	78.4	78.4	79.1	79.0	78.3	78.6	78.3	78.3	74.5	70.3	95.2	100	
16. <i>L. carnosum</i> DSM 5576	75.5	75.8	75.5	75.4	75.2	75.7	75.6	75.3	75.6	75.6	75.6	79.0	70.2	75.8	75.2	100

*Note: The table shows the average amino acid identity (AAI) percentages among the genomes of *Leuconostoc suionicum* VITA-PB2 and closely related taxa. Each rows and columns represent individual genomes. Values exceeding 95% are shown in bold. *Leuconostoc suionicum* VITA-PB2 highlighted in red.