

Table S1. The pairwise comparison of average nucleotide identity (ANI) values for the genomes of *Pediococcus pentosaceus* VITA-PK1 and related strains.

Genome	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1. <i>P. acidilactici</i> DSM 20284	100															
2. <i>P. acidilactici</i> DSM 20238	99.0	100														
3. <i>P. acidilactici</i> DSM 19927	97.0	97.1	100													
4. <i>P. acidilactici</i> KCTC 14696BP	97.2	97.2	98.8	100												
5. <i>P. pentosaceus</i> DSM 20280	75.6	75.1	75.4	75.8	100											
6. <i>P. pentosaceus</i> DSM 46292	75.4	75.2	75.1	75.5	98.6	100										
7. <i>P. pentosaceus</i> DSM 28628	75.4	75.2	75.2	75.4	98.6	98.9	100									
8. <i>P. pentosaceus</i> DSM 20283	75.7	75.4	75.4	75.7	98.6	98.8	99.1	100								
9. <i>P. pentosaceus</i> CECT 8330; DSM 32537	75.5	75.2	75.3	75.5	98.6	98.9	99.1	99.9	100							
10. <i>P. pentosaceus</i> VITA-PK1	75.6	75.4	75.3	75.5	98.6	98.8	99.0	99.7	99.7	100						
11. <i>P. pentosaceus</i> SL4 KCTC 10297BP	75.5	75.3	75.3	75.5	98.5	98.7	99.0	99.7	99.8	99.4	100					
12. <i>P. pentosaceus</i> DSM 20336	75.7	75.5	75.5	76.0	98.6	98.8	99.0	99.0	99.0	98.9	98.9	100				
13. <i>P. claussenii</i> DSM 14800	72.9	72.9	72.7	73.2	74.1	73.7	73.5	74.0	73.7	73.7	73.7	73.8	100			
14. <i>P. argentanicus</i> DSM 23026	73.7	73.7	73.5	73.8	74.9	74.7	74.3	74.8	74.6	74.5	74.4	74.6	74.2	100		
15. <i>P. ethanolidurans</i> CIRM-BIA2669	72.8	72.6	72.4	73.0	74.0	73.3	72.7	73.4	73.0	73.3	73.0	73.3	73.1	73.4	100	
16. <i>P. inopinatus</i> DSM 20285	72.9	72.7	72.3	73.5	73.9	73.4	72.7	73.4	73.0	73.1	73.1	73.3	73.2	73.1	78.2	100

*Note: The table shows the average nucleotide identity (ANI) percentages among the genomes of *Pediococcus pentosaceus* VITA-PK1 and related strains. Each rows and columns represent individual genomes. Values exceeding 95% are shown in bold. *Pediococcus pentosaceus* VITA-PK1 highlighted in red.