

Table S2. The pairwise comparison of Average Amino Acid Identity (AAI) 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. ethanolidurans</i> CIRM-BIA2669	100															
2. <i>P. inopinatus</i> DSM 20285	82.7	100														
3. <i>P. clausenii</i> DSM 14800	66.0	66.1	100													
4. <i>P. argentinicus</i> DSM 23026	66.9	66.5	70.9	100												
5. <i>P. pentosaceus</i> VITA-PK1	65.7	65.7	70.2	70.5	100											
6. <i>P. pentosaceus</i> SL4 KCTC 10297BP	65.6	65.6	70.3	70.6	99.2	100										
7. <i>P. pentosaceus</i> DSM 20283	65.6	65.9	70.3	70.7	99.6	99.5	100									
8. <i>P. pentosaceus</i> CECT 8330; DSM 32537	65.7	65.8	70.3	70.9	99.6	99.6	99.9	100								
9. <i>P. pentosaceus</i> DSM 20336	65.7	65.9	70.4	70.7	99.0	99.0	99.1	99.2	100							
10. <i>P. pentosaceus</i> DSM 28628	65.8	65.7	70.3	70.7	99.0	98.9	99.0	99.1	99.1	100						
11. <i>P. pentosaceus</i> DSM 46292	65.9	66.1	70.3	70.7	98.7	98.5	98.8	98.9	98.8	98.7	100					
12. <i>P. pentosaceus</i> DSM 20280	66.1	66.0	70.6	70.9	98.4	98.4	98.7	98.7	98.6	98.6	98.3	100				
13. <i>P. acidilactici</i> DSM 20284	65.4	65.5	69.8	70.5	78.4	78.4	78.4	78.4	78.5	78.3	78.1	78.1	100			
14. <i>P. acidilactici</i> DSM 20238	65.6	65.6	70.2	70.4	78.4	78.4	78.3	78.3	78.4	78.2	78.1	77.8	99.0	100		
15. <i>P. acidilactici</i> KCTC 14696BP	65.6	65.9	70.0	70.4	78.3	78.1	78.3	78.3	78.5	78.1	78.1	78.1	98.0	98.0	100	
16. <i>P. acidilactici</i> DSM 19927	65.7	65.6	70.0	70.5	78.4	78.3	78.4	78.4	78.5	78.2	78.0	78.1	98.0	98.0	98.9	100

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