

**Table S1.** The identification of an environmental strain of *Carnobacterium maltaromaticum* bacteria based on 16S rDNA sequence analysis.

Results of identification	16S rDNA genes sequence	E-value
<i>Carnobacterium maltaromaticum</i>	CGCACGAAGTTGAAGAGCTTGCTCTTTAACCAAGTGAGTGGCGGACGGGTGAGTA ACACGTGGGTAACCTGCCCATTAGAGGGGGATAACATTCGGAAACGGATGCTAAT ACCGCATAGTTTCAGGAATCGCATGATTCTTCCAATGGAAAGGTGGCTTCGAAGCT ACCACTAATGTTTGATGAGCACACACGGCCCGCCACTAGCTATGTTCTGGGCCCT TGCAGGTAAGTGGCGCACCAAGGCAATGATACGTAGCCGACCTGAGAGGGTGATC GGCCACACTGGGACCGAAGTACATCCGCCCAGACTCCTACGGGAGGCTAGGCAGT AGGGAATCTTACCGAAATGCACGAAAGTCTGAACCGGAGCAACTGCAACGCGTGA GCGAACAAGGTTTACGGATCGTAAAACTCTGTTGTTAAAGAAGAACAAGCATCGA GAGTAACAGCTCATTCCCCTGTACGGTACTAAACTGCAGAAAGCCACGGCTGGAA CGACGTGCCAAACAGTGGCCGTCAGAGTAATACGTACGGGTGGCAAGCGTTACG ACCGTTGATCATTATTGGGCCCAAAGCGAGCAACAGCCCTGAATTCGGTTGTAGAG TGCTGATGCTCGAAAGCCCCCGGCTCAACCGGGGAGGATCAGTGGAACAGGAGA ATCCCTTTCGAGATAGCAGATCTCACCAGGTTCTACAGTTCTGGACCATTCCAAG AGTAGCGCAACGAAATGCGTAGATATGGTGTACGAGGTGGCGAACACGCCCAGGG GCAGTTAAGGAAACTCAAAGGTCGGTAACTGACGGCATGAGGGGTCCGCCTCACG AATTACGCAATCGACGTCGTGACTTCCCGCCTTTGGGAGGTTGTGAATCGTGAGTA GCAAATGCCGCACCTGATGGTCCCATAGATTAGGACAAACGAGGGGTGCGAAAGC TCGGAGTCGCAGTCAATGTCTGGTCTCTCAGCGGAAGCGGTGACCACAAGGAGGT GTATAGATGCGTAAAGTGGCGATGTGCACCTTAAGGTGAGAGGAGAAGACGTGAG TTCAAGAGGTCAAAGGTTACTGGGAGGGGCCAACTCGGCCCCCGAAAGTG TAGTC TGAATTTCTTGCGGACG	1.0