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Appendix

Partial sequence of LAB isolates (A: *Lactobacillus plantarum* HS, B: *Pediococcus acidilactici* HC, C: *Lactobacillus curvatus* HH, D: *Pediococcus pentosaceus* HM)

(A)

Sample	Sequence
L. plantarum	CGCGCGGGGGCGCGTCCTATAATGCAAGTCGAACGAACTCTGG TATTGATTGGTGCTTGCATCATGATTTACATTTGAGTGAGTGGC GAACTGGTGAGTAACACGTGGGAAACCTGCCCAGAAGCGGGG GATAACACCTGGAAACAGATGCTAATACCGCATAACAACTTGG ACCGCATGGTCCGAGTTTGAAAGATGGCTTCGGCTATCACTTTT GGATGGTCCCGCGGCGTATTAGCTAGATGGTGGGGTAACGGCT CACCATGGCAATGATACGTAGCCGACCTGAGAGGGTAATCGGC CACATTGGGACTGAGACACGGCCCAAACTCCTACGGGAGGCA GCAGTAGGGAATCTTCCACAATGGACGAAAGTCTGATGGAGC AACGCCGCGTGAGTGAAGAAGGGTTTCGGCTCGTAAAACTCTG TTGTTAAAGAAGAACATATCTGAGAGTAACTGTTCAGGTATTG ACGGTATTTAACCAGAAAGCCACGGCTAACTACGTGCCAGCAG CCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTGG GCGTAAAGCGAGCGCAGGCGGTTTTTAAGTCTGATGTGAAAG CCTTCGGCTCAACCGAAGAAGTGCATCGGAAACTGGGAAACTT GAGTGCAGAAGAGGACAGTGGAACTCCATGTGTAGCGGTGAA ATGCGTAGATATATGGAAGAACACCAGTGGCGAAGGCGGCTG TCTGGTCTGTAACTGACGCTGAGGCTCGAAAGTATGGGTAGCA AACAGGATTAGATACCCTGGTAGTCCATACCGTAAACGATGAA TGCTAAGTGTTGGAGGGTTTCCGCCCTTCAGTGCTGCAGCTAA CGCATTAAGCATTCCGCCTGGGGAGTACGGCCGCAAGGCTGAA ACTCAAAGGAATTGACGGGGCCCGCACAAGCGGTGGAGCATG TGGTTTAATTCGAAGCTACGCGAAGAACCTTACCAGGTCTTGA CATACTATGCAATCTAGAGATTAGACGTTCCCTTCGGGACATG GATACAGGTGGTGCATGGTGTC

(B)

Sample	Sequence
P. acidilactici	GAAGGGGGTGCTATACATGCAGTCGAACGAACTTCCGTTAATT GATTATGACGTGCTTGCACTGAATGAGATTTTAACACGAAGTG AGTGGCGGACGGGTGAGTAACACGTGGGTAACCTGCCCAGAA GCAGGGGATAACACCTGGAAACAGATGCTAATACCGTATAAC AGAGAAAACCGCCTGGTTTTCTTTTAAAAGATGGCTCTGCTAT CACTTCTGGATGGACCCGCGGCGCATTAGCTAGTTGGTGAGGT AACGGCTCACCAAGGCGATGATGCGTAGCCGACCTGAGAGGG TAATCGGCCACATTGGGACTGAGACACGGCCCAGACTCCTACG GGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTG ATGGAGCAACGCCGCGTGAGTGAAGAAGGGTTTCGGCTCGTA AAGCTCTGTTGTTAAAGAAGAACGTGGGTGAGAGTAACTGTTC ACCCAGTGACGGTATTTAACCAGAAAGCCACGGCTAACTACGT GCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTATCCGGA TTTATTGGGCGTAAAGCGAGCGCAGGCGGTCTTTTAAGTCTAA TGTGAAAGCCTTCGGCTCAACCGAAGAAGTGCATTGGAAACTG GGAGACTTGAGTGCAGAAGAGGACAGTGGAACTCCATGTGTA GCGGTGAAATGCGTAGATATATGGAAGAACACCAGTGGCGAA GGCGGCTGTCTGGTCTGTAACTGACGCTGAGGCTCGAAAGCAT GGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAA ACGATGATTACTAAGTGTTGGAGGGTTTCCGCCCTTCAGTGCT GCAGCTAACGCATTAAGTAATCCGCCTGGGGAGTACGACCGCA AGGGTTGAAACTCAAAAGAATTGACGGGGGCCCGCACAAGCGG TGGAGCATGTGGTTTAATTCGAAGCTACGCGAAGAACCTTACC AGTCTTGACATCTTCTGCCACCTAGAGATTAGCGTTCCCTTCGG GGACAGATGACAGTGTGCATGGTGT

(C)

Sample	Sequence
L. curvatus	GGGGGTCGCGATACTAGCGATTCCGACTTCGTGTAGGCGAGTTGC AGCCTACAGTCCGAACTGAGAATGGTTTTAAGAGATTAGCTAAAC CTCGCGGTTTCGCGACTCGTTGTACCATCCATTGTAGCACGTGTGT AGCCCAGGTCATAAGGGGCATGATGATTTGACGTCGTCCCCACCTT CCTCCGGTTTGTCACCGGCAGTCTCACTAGAGTGCCCAACTGAATG CTGGCAACTAGTAATAAGGGTTGCGCTCGTTGCGGGACTTAACCCA ACATCTCACGACACGAGCTGACGACAACCATGCACCACCTGTCATT CTGTCCCCGAAGGGAACGCCTAATCTCTTAGGTTGGCAGAAGATGT CAAGACCTGGTAAGGTTCTTCGCGTAGCTTCGAATTAAACCACATG CTCCACCGCTTGTGCGGGCCCCCGTCAATTCTTTTGAGTTTCAACCT TGCGGTCGTACTCCCCAGGCGGATTACTTAATGCGTTAGCTGCAGC ACTGAAGGGCGGAAACCCTCCAACACTTAGTAATCATCGTTTACG GCATGGACTACCAGGGTATCTAATCCTGTTCGCTACCCATGCTTTC GAGCCTCAGCGTCAGTTACAGACCAGACAGCCGCCTTCGCCACTG GTGTTCTTCCATATATCTACGCATTTCACCGCTACACATGGAGTTCC ACTGTCCTCTTCTGCACTCAAGTCTCCCAGTTTCCAATGCACTTCTT CGGTTGAGCCGAAGGCTTTCACATTAGACTTAAAAGACCGCCTGC GCTCGCTTTACGCCCAATAAATCCGGATAACGCTTGCCACCTACGT ATTACCGCGGCTGCTGGCACGTAGTTAGCCGTGGCTTTCTGGTTAA ATACCGTCACTGGGTGAACAGTTACTCTCACCCACGTTCTTCTTTA ACAACAGAGCTTTACGAGCCGAAACCCTTCTTCACTCACGCGGCGT TGCTCCATCAGACTTGCGTCCATTGTGGAGATTCCCTACTGCTGCC TCCCGTAGAGTCTGGGCCGTGTCTCAGTCCCATGTGGCCG

(D)

Sample	Sequence
P. pentosaceus	GGGTTCGCGATACTAGCGATTCCGACTTCGTGTAGGCGAGTTG CAGCCTACAGTCCGAACTGAGAATGGTTTTAAGAGATTAGCTT AACCTCGCGGTCTCGCGACTCGTTGTACCATCCATTGTAGCAC GTGTGTAGCCCAGGTCATAAGGGGCATGATGATTTGACGTCGT CCCCACCTTCCTCCGGTTTGTCACCGGCAGTCTCACTAGAGTG CCCAACTTAATGCTGGCAACTAGTAATAAGGGTTGCGCTCGTT GCGGGACTTAACCCAACATCTCACGACACGAGCTGACGACAA CCATGCACCACCTGTCATTCTGTCCCCGAAGGGAACCTCTAAT CTCTTAGACTGTCAGAAGATGTCAAGACCTGGTAAGGTTCTTC GCGTAGCTTCGAATTAAACCACATGCTCCACCGCTTGTGCGGG CCCCCGTCAATTCTTTTGAGTTTCAACCTTGCGGTCGTACTCCC CAGGCGGATTACTTAATGCGTTAGCTGCAGCACTGAAGGGCG GAAACCCTCCAACACTTAGTAATCATCGTTTACGGCATGGACT ACCAGGGTATCTAATCCTGTTCGCTACCCATGCTTTCGAGCCT CAGCGTCAGTTGCAGACCAGACAGCCGCCTTCGCCACTGGTGT TCTTCCATATATCTACGCATTTCACCGCTACACATGGAGTTCC ACTGTCCTCTTCTGCACTCAAGTCTCCCAGTTTCCAATGCACTT CTTCGGTTGAGCCGAAGGCTTTCACATTAGACTTAAAAGACCG CCTGCGCTCGCTTTACGCCCAATAAATCCGGATAACGCTTGCC ACCTACGTATTACCGCGGCTGCTGGCACGTAGTTAGCCGTGGC TTTCTGGTTAAATACCGTCACTGGGTAAACAGTTACTCTTACC CACGTTCTTCTTTAACAACAGAGCTTTACGAGCCGAAACCCTT CTTCACTCACGCGGCGTTGCTCCATCAGACTTGCGTCCATTGT GGAAGATTCCCTACTGCTGCCTCCCGTAGAGTCTGGGCCGTGT CTCAGTCC CATGTGGCGA

LIST OF PUBLICATIONS

Papers

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1) **Bulgasem Y Bulgasem** and Zaiton Hassan. 2014. Effect of pH and heat treatment on antifungal activity of *Lactobacillus curvatus* and *Lactobacillus plantrum*2. National postgraduate Seminar (NPS2014), Faculty of Biotechnology and Biomolecular sciences, Universiti Putra Malaysia, 10 September 2014. **Poster**.