

Supplementary Information

***Pediococcus pentosaceus* B49 from human colostrum ameliorates constipation in mice**

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Table S1. List of primer sequences used for RT-qPCR

Gene name	Primer Sequence	
	Forward (5'-3')	Reverse (5'-3')
<i>Ache</i>	GATTTTCCTTCGTGCCTGTG	GACCCCGTAAACCAGAAAGTAG
<i>Cyp2d12</i>	GATACTCCTGCACATCCCAAG	CTTGGCCTTCTCTATCTCTGC
<i>Muc2</i>	CATCCCTCAAAACCAGACCAG	CCACAGGACCCAAAACAGTAG
<i>Gsdmc2</i>	AACATTCCCTTCACACTCCAG	CTCCATCTTCAGACCACACTC
<i>Pitx2</i>	AAGTCGCAGAGAAAGATAAGGG	ATGTCTGGGTAGCGGTTTC
<i>Gapdh</i>	CCACTCACGGCAAATTCAAC	CTCCACGACATACTCAGCAC

Ache: acetylcholinesterase; *Cyp2d12*: cytochrome P450, family 2, subfamily d, polypeptide 12; *Muc2*: mucin 2; *Gsdmc2*: gasdermin C2; *Pitx2*: paired-like homeodomain transcription factor 2; *Gapdh*: glyceraldehyde-3-phosphate dehydrogenase.

The 16S rRNA gene sequence of *P. pentosaceus* B49 is shown as following:

tgcagtcgaa cgaacttccg ttaattgatt atgacgtact tgtactgatt gagattttaa 60

cacgaagtga gtggcgaacg ggtgagtaac acgtgggtaa cctgcccaga agtaggggat 120

aacacctgga aacagatgct aataccgtat aacagagaaa accgcatggt tttctttaa 180

aagatggctc tgctatcact tctggatgga cccgcggcgt attagctagt tggtaggta 240

aaggctcacc aaggcagtga tacgtagccg acctgagagg gtaatcgcc acattgggac 300

tgacacacgg ccagactcc tacgggaggc agcagtaggg aatcttcac aatggacgca 360

agtctgatgg agcaacccg cgtgagtga gaagggttc ggctcgtaa gctctgtgt 420

taaagaagaa cgtgggtaag agtaactgt taccagtga cggtattaa ccagaaagcc 480

acggctaact acgtgccage agccgcggta atacgtaggt ggcaagcgtt atccggatt 540

attgggcgta aagcgagcgc aggcggtctt ttaagtctaa tgtgaaagcc ttcggctcaa 600

ccgaagaagt gcattgaaa ctgggagact tgagtgcaga agaggacagt ggaactccat 660

gtgtagcggg gaaatgcgta gatatatgga agaacaccag tggcgaaggc ggctgtctgg 720

tctgcaactg acgtgaggc tcgaaagcat gggtagcga caggattaga tacctggt 780

gtccatgccg taaacgatga ttactaagtg ttggagggt tccgccctc agtgctgcag 840

ctaacgcatt aagtaatccg cctggggagt acgaccgaa ggtgaaact caaagaatt 900

gacgggggccc cgcacaagcg gtggagcatg tggtttaatt cgaagctac ggaagaacct 960

taccaggtct tgacatctc tgacagtcta agagattaga ggttccctc ggggacagaa 1020

tgacaggtgg tgcattggtg tcgtcagctc gtgtcgtgag atgttgggtt aagtcccga 1080

acgagcgcaa cccttattac tagttgccag cattaagttg ggcactctag tgagactgcc 1140

ggtgacaaac cggaggaagg tggggacgac gtcaaatcat catgccctt atgacctggg 1200

ctacacacgt gctacaatgg atgtacaac gagtcgag accgcgaggt taagtaate	1260
tcttaaaacc attctcagtt cggactgtag gctgcaactc gcctacacga agtcggaate	1320
gctagtaate gcggatcagc atgcccgggt gaatacgttc ccgggccttg tacacaccgc	1380
ccgtcacacc atgagagttt gtaacacca aagccgggtgg ggtaacctt aggagctagc	1440
cgtctaa	1447