

Table S1. Primers sequences used for quantitative RT-PCR

Gene	Primer sequence (5' –3')	Annealing temperature (°C)	Product size (bp)
β -Actin	F: TGGAACGGTGAAGGTGACAGC R: GCTTTTGGAAGGCAGGGACT	60	177
<i>SGLT-1</i>	F: CCACTTTCCTATAAAACCTCAC R: CTCCATCAAACCTCCATCCTCAG	60	151
<i>GLUT-2</i>	F: CCTGCTTGGTCTATCTGCTGTG R: TTGATGCTTCTTCCCTTTCTTT	60	156
<i>CAT-1</i>	F: TGCCCATACTTCCCGTCC R: GGTCCAGGTTACCGTCAG	60	192
<i>LAT-1</i>	F: GCCCATTGTCACCATCATC R: GAGCCCACAAAGAAAAGC	60	216
<i>FATP-1</i>	F: GGAGTAGAGGGCAAAGCAGG R: AGGTCTGGCGTGGGTCAAAG	60	208
<i>FATP-4</i>	F: TTCATCAAGACGGTCAGGCG R: AGACGGTGGCAGCGAATAAG	60	133
<i>ZO-1</i>	F: CAGCCCCCGTACATGGAGA R: GCGCAGACGGTGTTTCATAGTT	60	114
Occludin	F: CTACTCGTCCAACGGGAAAAG R: ACGCCTCCAAGTTACCACTG	60	158
Claudin-1	F: GCCACAGCAAGGTATGGTAAC R: AGTAGGGCACCTCCCAGAAG	60	140
MUC2	GGTCATGCTGGAGCTGGACAGT TGCCTCCTCGGGGTCGTCAC	59	181
Total bacteria	F: ACTCCTACGGGAGGCAGCAG R: ATTACCGCGGCTGCTGG	60	200
<i>Lactobacillus</i>	F: GAGGCAGCAGTAGGGAATCTTC R: CAACAGTTACTCTGACACCCGTTCTTC P: AAGAAGGGTTTCGGCTCGTAAAACTCTGTT	60	126
<i>Escherichia coli</i>	F: CATGCCGCGTGTATGAAGAA R: CGGGTAACGTCAATGAGCAAA P: AGGTATTAACCTTTACTCCCTTCCTC	60	96
<i>Bifidobacterium</i>	F: CGCGTCCGGTGTGAAAG R: CTTCCCGATATCTACACATTCCA	60	121

	P: ATTCCACCGTTACACCGGGAA		
	F: GCAACGAGCGCAACCCTTGA		
<i>Bacillus</i>	R: TCATCCCCACCTTCCTCCGGT	60	92
	P: CGGTTTGTACCGGCAGTCACCT		
<hr/>			
ZO-1, zonula occludens-1; FATP1, Fatty acid transport protein-1; FATP4, Fatty acid transportprotein-4; LAT1, L-type amino acid transporter-1; CAT1, cationic amino acid transporter-1; MUC2, mucin-2; SGLT1,sodium glucose transport protein-1;			