

Supplementary Information

Table S1 Diarrhea score

Diarrhea score	Fecal consistency	Diarrhea degree
3	Liquid/Fecal and water being separate	Severe
2	Not form/Semi-liquid	Moderate
1	Soft/Forming	Light
0	Hard bar/Hard granulous	Normal

Table S2 Bacterial primer and probe sequences

Items	Primer and probe (5'-3')	Product length (bp)
<i>Escherichia coli</i>	P: AGGTATTAACCTTTACTCCCTTCCTC F: CATGCCGCGTGTATGAAGAA R: CGGGTAACGTCAATGAGCAAA	96
<i>Bifidobacterium</i>	P: ATTCCACCGTTACACCGGGAA F: CGCGTCCGGTGTGAAAG R: CTTCCCGATATCTACACATTCCA	121
<i>Bacillus</i>	P: CGGTTTGTCACCGGCAGTCACCT F: GCAACGAGCGCAACCCTTGA R: TCATCCCCACCTTCCTCCGGT	92
<i>Lactobacillus</i>	P: AAGAAGGGTTTTCGGCTCGTAAAACCTCTGTT F: GAGGCAGCAGTAGGGAATCTTC R: CAACAGTTACTCTGACACCCGTTCTTC	126
<i>Total bacteria</i>	R: ATTACCGCGGCTGCTGG F: ACTCCTACGGGAGGCAGCAG	200

Table S3 Primer sequences used for RT-qPCR amplification.

Gene	Primer Sequences (5' -3')	Annealing temperature, bp	GenBank accession
<i>ZO-1</i>	F: CAGCCCCCGTACATGGAGA R: GCGCAGACGGTGTTTCATAGTT	114	XM_021098896.1
<i>OCCLUDIN</i>	F: CTACTCGTCCAACGGGAAAG R: ACGCCTCCAAGTTACCACTG	158	XM_005672525.3
<i>ZO-2</i>	F: ATTCTGGACCCATAGCAGACATAG R: GCGTCTCTTGTTTCTGTTTTAGC	90	XM_021070966.1
<i>MUC1</i>	F: GTGCCGCTGCCCACAACCTG R: AGCCGGGTACCCCAGACCCA	141	XM_021089730.1
<i>Claudin-1</i>	F: TTTCTCAATACAGGAGGGAAGC R: CCCTCTCCCCACATTTCGAG	81	NM_001244539.1
<i>MUC2</i>	F: GGTCATGCTGGAGCTGGACAGT R: TGCCTCCTCGGGGTCGTCAC	181	XM_021082584.1
<i>CFTR</i>	F: CTGGAGCCTTCAGAGGGTAAAAT R: AGTTGGCACGCTTTGATGACACTCC	155	XM_021078523.1
<i>LPA2</i>	F: TGCTCATGGTGGCTGTCTAC R: AGATGACGAATGCTCCCAGAA	153	XM_005654915.3
<i>LPA5</i>	F: GTGACCAAAGGCATCCCATCG R: CACTGGAGTCCTGGCATCACA	153	XM_021092424.1
<i>β-actin</i>	F: TGGAACGGTGAAGGTGACAGC R: GCTTTTGGAAGGCAGGGACT	177	XM_003124280.5

Table S4 Effects of Dietary LPL Supplementation on Organ Indices in Weaned Piglets Challenged with ETEC

Items	Treatments				SEM	P-value		
	CON	LPL	CON+ETEC	LPL+ETEC		LPL	ETEC	L×E
Liver index	28.93	27.11	29.12	28.65	0.45	0.23	0.36	0.47
Spleen index	2.04	1.96	2.17	1.99	0.06	0.35	0.56	0.76
Kidney index	6.02	5.80	5.31	5.83	0.12	0.54	0.16	0.13