Supporting Information

Lactobacillus plantarum Ameliorates High-fat-diet-induced Dyslipidemia via Cholesterol Metabolism and Gut Microbiota Modulation

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Supplementary Tables

Table S1. Primer sequences used in this study.

Target gene	Primer	Sequences (5→3)
GAPDH	Forward	TCCTGCACCACCAACTGCT
	Reverse	GTCAGATCCACGACGGACACA
AMPKα	Forward	CAGGAAGATTGTACGCAGGC
	Reverse	AACCACTCGTGTTCCCTGAT
SREBP2	Forward	CTCCTCCTGTGGCTGGTAAA
	Reverse	AGCTGCGAAATCACCTTTGG
HMGCR	Forward	GCGGCAGCTTGAGATCAT
	Reverse	AGCTCAGCCATTTTGCCAG
NPC1L1	Forward	TGGACATACGCTCAGGCATC
	Reverse	GGTTGATGAGGGACACAGCA
ABCG5	Forward	TCAATGAGTTTTACGGCCTGAA
	Reverse	GCACATCGGGTGATTTAGCA
ABCG8	Forward	CTGTGGAATGGGACTGTACTTC
	Reverse	GTTGGACTGACCACTGTAGGT

Table S2 Linear regression equation of six short-chain fatty acid standards

Number	Name	Retention time（min）	Linear Equation	R^2	linear ranges (mg/mL)
1	Acetic acid	3.189	y=716994x-17577	0.9980	0.004-2
2	Propionic acid	3.991	y=977218x-8227	0.9997	0.004-2
3	Isobutyric acid	4.293	y=1967362x-65813	0.9985	0.004-2
4	Butyric acid	4.948	y=1456741x-22485	0.9996	0.004-2
5	isovaleric acid	5.429	y=1945193x-51010	0.9988	0.004-2
6	Valeric acid	5.942	y=1458903x+16604	0.9987	0.004-2