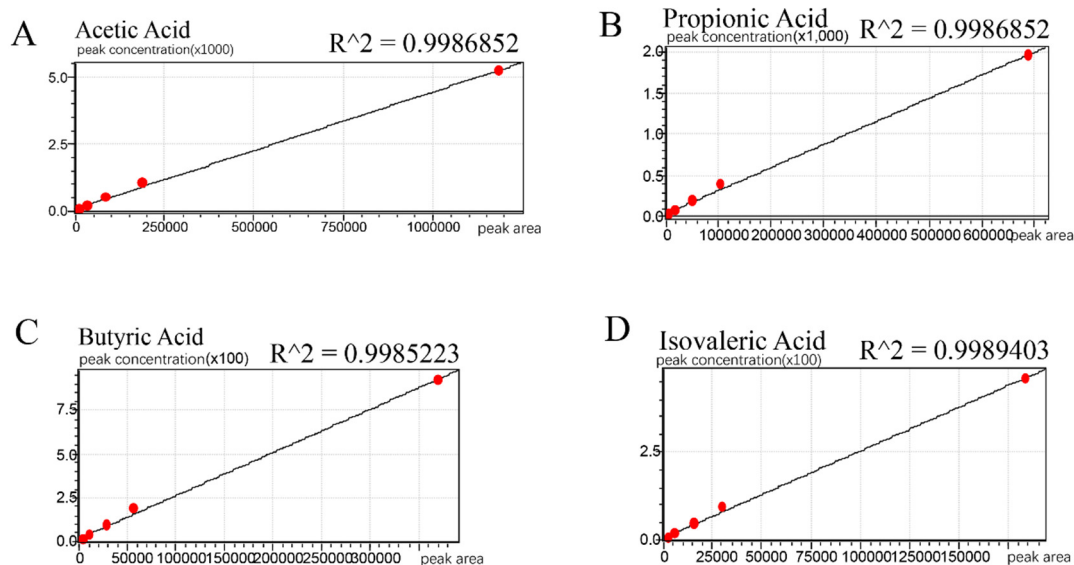


Supplementary Table S1. Primer sequence list for qRT-PCR.

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
Claudin-1	ACCCTGCCCCGTGACTTTG	AGGAGTCGAAGACTTTGCACT
ZO-1	GATGAGCGGGCTACCTTA	TGGAGACTGCGTGGAATG
TNF- α	GGGTGTTTCATCCATTCTC	GGAAAGCCCATTGAGT
IL-22	ATGAGTTTTTCCCTTATGGGGAC	GCTGGAAGTTGGACACCTCAA
IL-6	GAAACCGCTATGAAGTTCCTCTCT G	TGTTGGGAGTGGTATCCTCTGTG A
IL-1 β	GGCTGGACTGTTTCTAATGC	ATGGTTTCTTGTGACCCTGA
CAT	GAGGCGGGAACCCAATAG	GTGTGCCATCTCGTCAGTGAA
Nrf2	CTTTAGTCAGCGACAGAAGGAC	AGGCATCTTGTTTGGGAATGTG
HO-1	GAACCCAGTCTATGCCCCAC	GGCGTGCAAGGGATGATTC
NQO1	AGGATGGGAGGTACTCGAATC	AGGATGGGAGGTACTCGAATC



Supplement Figure S1. Peaks of chromatogram reported to standards of Acetic Acid (A), Propionic Acid (B), Butyric Acid (C) and Isovaleric Acid (D). R^2 in turn 0.9986852, 0.9986852, 0.9985223 and 0.9989403.