



Supplementary Figure 1. MS spectra of SCFAs (A), The ion chromatograms of SCFA standards obtained by multiple-ion reaction monitoring (MRM) mode (B).

The supplementary Table 1. Retention times and MRM ion transitions of SCFAs by GC-MS/MS.

Compound	RT (min)	MRM ion transitions, m/z (Collision energy, eV)	
		Quantitative ion	Qualitative ion
Acetic acid	5.31	240 → 181 (10)	181 → 161 (20)
Propionic acid	6.48	254 → 181 (10)	181 → 161 (20)
Butyric acid	7.42	268 → 181 (20)	181 → 162 (20)
Propionic acid- <i>d</i> <sub>3</sub>	6.43	257 → 181 (10)	

The supplementary Table 2. Compositions of experimental diets.

<b>Ingredient</b>	<b>Control group</b>	<b>The other group</b>
Analyses (%)		
Fat	56.9	69.0
Protein	28.0	15.0
Fiber	6.7	5.9
Ash	4.9	5.9
*NfE	3.4	4.1
Trace elements (mg/kg)		
Fe	163	187
Zn	91	98.2
Cu	10.8	16.7
Vitamins (IE/kg)		
Vit A	6800	8000
Vit D	1700	2000
Vit E	170	200

\*NfE : nitrogen free extract