

Supplementary Table 1. Ingredient composition of diets (as fed basis).

Items	Content
Ingredients	<i>g/kg</i>
Corn	555
Soybean meal (44% CP)	220
Wheat bran	30
Fish meal	55
Corn oil or fish oil	50
Soy protein concentrate	25
Milk-replacer powder	30
Limestone	7.0
Dicalcium phosphate	10
Salt	2.0
L-Lysine. HCl (78.8% Lysine)	2.7
Acidifier ¹	2.0
Butylated hydroquinone	0.5
Preservative ²	0.5
Sweetener ³	0.3
Vitamin and mineral premix ⁴	10
Nutrient composition	<i>g/kg</i>
Digestible energy ⁵ , <i>MJ/kg</i>	14.0
Crude protein ⁶	203
Calcium ⁶	8.9
Total phosphorus ⁶	6.9
Total lysine ⁵	13.6
Total methionine + cysteine ⁵	7.4

¹A compound acidifier including lactic acid and phosphoric acid, provided by Wuhan Fanhua Biotechnology Company, Wuhan, China.

²A compound mould inhibitor including calcium propionate, fumaric acid, fumaric acid monoethyl ester and sodium diacetate, provided by Sichuan Minsheng Pharmaceutical Co., Ltd, Chengdu, China.

³A compound sweetener including saccharin sodium and disodium 5'-guanylate, provided by Wuhan Fanhua Biotechnology Company, Wuhan, China.

⁴The premix provided the following amounts per kg of complete diet: retinol acetate, 2700 μg ; cholecalciferol, 62.5 μg ; dl- α -tocopheryl acetate, 20 mg; menadione, 3 mg; vitamin B₁₂, 18 μg ; riboflavin, 4 mg; niacin, 40 mg; pantothenic acid, 15 mg; choline chloride, 400 mg; folic acid, 700 μg ; thiamin, 1.5 mg; pyridoxine, 3 mg; biotin, 100 μg ; Zn, 80 mg (ZnSO₄·7H₂O); Mn, 20 mg (MnSO₄·5H₂O); Fe, 83 mg (FeSO₄·H₂O); Cu, 25 mg (CuSO₄·5H₂O); I, 0.48 mg (KI); Se, 0.36 mg (Na₂SeO₃·5H₂O).

⁵Calculated.

⁶Analyzed.

Supplementary Table 2. Fatty acid composition of fish oil or corn oil.¹

Fatty acid	Corn oil	Fish oil
	% total fatty acids	
4:0	2.27	2.73
14:0	0.04	8.89
16:0	12.81	21.06
16:1(n-7)	0.09	9.97
18:0	1.73	3.79
<i>cis</i> 18:1(n-9)	29.91	11.10
<i>cis</i> 18:2(n-6)	51.27	1.27
18:3(n-3)	0.75	0.75
20:4(n-6)	0.01	1.16
20:5(n-3)	ND ²	21.22
22:6(n-3)	ND ²	12.88
Total (n-6) PUFA ³	51.31	3.07
Total (n-3) PUFA ³	0.75	34.96
(n-6)/(n-3)	68.13	0.09

¹ The fatty acid profiles from 4:0 to 24:1(n-9) were analyzed in duplicate. Only the most abundant fatty acids are listed. The detection limit was 0.01 mg/g diet for each fatty acid.

² ND = not detectable.

³ Total (n-6) PUFA and total (n-3) PUFA corresponded to the sum of all the (n-6) or (n-3) PUFA detected.

Supplementary Table 3. Primer sequences used for real-time PCR.

Gene	Primer sequence (5'-3')
<i>TNF-α</i>	F: TCCAATGGCAGAGTGGGTATG R: AGCTGGTTGTCTTTCAGCTTCAC
<i>IL-1β</i>	F: GCTAACTACGGTGACAACAATAATG R: CTTCTCCACTGCCACGATGA
<i>IL-6</i>	F: AAGGTGATGCCACCTCAGAC R: TCTGCCAGTACCTCCTTGCT
<i>CXCL10</i>	F: AGAAGCATAATCACGGCACTAC R: CAGGACTTGGCACATTCATAA
<i>CXCL11</i>	F: TGGCTATAGTCTTGGCTGTCATAT R: GCTTGCTTTGATTTGGGATTTAGG
<i>IL1R1</i>	F: CGAGAGCAAGAGTAGCAGAGA R: CAATCAGAGCAGCGTCATAGG
<i>IL1RAP</i>	F: GCCAGAAGACACCACTATTGA R: AATCACCACCAGCAGGACT
<i>IL-18BP</i>	F: ACACGCATCATGACCAGGAG R: GTGGGACTTCCTCTTCTGGC
<i>NFKB1A</i>	F: CCTGGTGTCGCTCTTGTTG R: CTCTCCTCATCCTCGCTCTC
<i>CEBPB</i>	F: TGTCCACATCCTCGTCGTCC R: GCCTTGTCGCGGCTCTT
<i>CRP</i>	F: TGAGTGGCGAGGTGTATGTC R: AAGAGCGGAGAACGGAGAAG
<i>IFIT1</i>	F: GATGGACTGTGAGGAAGGATG R: TAGGCGATAGATGGTGATTGC
<i>IFIT2</i>	F: GCAGAAGACGGCAGAGAATG

	R: AGAGGCAGGCGAGATAGGA
	F: GCTGTGACTTCTTCGTGACTT
<i>ATF3</i>	R: AGAGGACCTGCGTTAATAATGC
	F: CTTGCTGCCTGCCTACTTC
<i>FADS1</i>	R: GGATGTGGTTCATCTGTGTCA
	F: AGCTGAAATACCTGCCTTAC
<i>FADS2</i>	R: CACCCAGTCTTTACGAACAA
	F: CCGTGGAAAGAGCGAAAT
<i>ACADS</i>	R: CCAAACACTCCTCCCGAAC
	F: CCCCTTATTATTGGTGGA
<i>ACADM</i>	R: TGCTTTGGTCTTTATCCC
	F: CCAGGACTCAGGCAACACT
<i>HMGCS2</i>	R: CCACAGACCACTACCGCATA
	F: CGACCAAGTGGCTACTGTGAT
<i>APOA4</i>	R: CCCAAGTTTGTCTGGAAGAG
	F: TGGAGATAATGGGACAGGC
<i>THRSP</i>	R: GAGGAAGGGAAGGAAGCA
	F: CGTCCCTGAGACACGATGGT
<i>GAPDH</i>	R: GCCTTGACTGTGCCGTGGAAT
