

Supplementary material

Table S1. The main ingredients' chemical content and amino acid content.

Nutrient content of wet matter (%)	Ingredients				
	Fish meal	Poultry meal	Soybean meal	Corn gluten meal	Soy protein concentrate
Essential amino acid					
Arg	3.49	4.20	3.51	1.80	4.65
His	1.95	1.29	1.25	1.27	1.71
ILe	2.60	2.62	2.19	2.30	2.96
Leu	4.59	4.72	3.71	9.62	5.00
Lys	4.93	3.88	3.01	0.94	4.10
Met	1.79	1.33	0.68	1.36	0.90
Phe	2.77	2.78	2.58	3.67	3.40
Thr	2.66	2.61	1.92	1.92	2.57
Val	3.06	3.21	2.30	2.66	3.08
Nonessential amino acid					
Cys	0.64	1.00	0.70	1.09	0.90
Met+ Cys	2.43	2.33	1.38	2.45	1.80
Gly	3.94	5.28	2.05	1.59	2.71
Ser	2.38	3.28	2.41	2.99	3.25
Pro	2.76	4.08	2.61	5.80	3.54
Ala	3.99	3.78	2.10	5.05	2.77
Asp	5.83	5.32	5.59	3.48	7.45
Glu	8.18	8.41	8.77	12.73	11.64
Main chemical content					
Dry matter	93.23	91.81	89.58	92.80	90.63
Crude protein	66.44	66.89	49.92	60.91	66.08
Crude fat	6.30	7.25	3.25	-	-
Gross energy (KJ/g)	23.70	27.90	24.20	28.30	24.80