Table S1 Ingredient of the basal diet for Koi carp.

Ingredient	Content (g/kg) (dry weight basis)	Ingredient	Nutrient levels (%)
Fish meal	200	Crude protein	45
Soybean meal	200	Crude lipid	10
Corn gluten	190	Ash	12
Wheat flour	280	Moisture	8
Soybean oil	30		
Fish oil	30		
Mineral premix	30		
Vitamin premix	20		
$Ca(H_2PO_4)_2$	20		

Note: Vitamin premix provides the following (mg/kg diet): vitamin A (500,000 IU) 40 mg, vitamin D3 (500,000 IU) 15 mg, vitamin E (50%) 300 mg, vitamin K3 (50%) 300 mg, calcium pantothenate 250 mg, inositol 400 mg, nicotinic acid 450 mg, folic acid 6 mg, biotin (2%) 10 mg. Mineral premix provides the following (mg/ kg diet): Na_2SeO_3 (1%) 20 mg, $CuSO_4 \cdot 5H_2O$ (25%) 24 mg, $FeSO_4 \cdot H_2O$ (30%) 266.65 mg, $ZnSO_4 \cdot H_2O$ (34.50%) 100 mg.