



Supplementary Table S1. Ingredients and nutrient composition of the experimental diets.

Ingredients	Control (%)	MOS200 (%)	MOS400 (%)
Fish meal	8.00	8.00	8.00
Soybean meal	20.80	20.80	8.00
Cottonseed meal	15.00	15.00	15.00
Rapeseed meal	18.00	18.00	15.00
Wheat middling	30.00	30.00	30.00
Soybean oil	5.00	5.00	5.00
Ca(H ₂ PO ₄) ₂	2.00	1.98	1.96
MOS	-	0.02	0.04
Choline	0.30	0.30	0.30
Vitamin premix ¹⁾	0.40	0.40	0.40
Mineral premix ²⁾	0.50	0.50	0.50
Total	100	100	100
Nutrient levels ³⁾			
Moisture	6.88	6.89	6.91
Crude protein	37.10	36.78	36.91
Crude lipid	8.43	8.41	8.28
Ash	7.50	7.51	7.51

1) Vitamin premix for each kg of feed: VE 50 mg, VA 5 000 IU, VB1 8 mg, VK 5 mg, VB6 8 mg, VD 2 000 IU, VB2 10 mg, Pantothenic acid 30 mg, VB12 0.03 mg, Folic acid 3 mg, Niacin 30 mg, inositol 100 mg, biotin 0.4 mg, VC 180 mg.

2) Mineral premix for each kg of feed: Mg 300 mg, Zn 150 mg, Fe 170 mg, Co 0.25 mg, Cu 4 mg, Mn 22 mg, Se 0.4 mg.

3) Moisture, crude protein, crude lipid and ash contents were Calculated values.