

Table 5 Gross and chemical composition of roasted, full-fat soyabean-basal diets for juvenile *Clarias gariepinus*

Ingredient (dry matter)	S ₀ (0%)	S ₁ (25%)	S ₂ (50%)	S ₃ (75%)	S ₄ (100%)
Fish meal	54.29	45.38	34.16	19.62	-
Soyabean meal (full fat)	-	15.13	34.16	58.85	92.15
Maize	42.21	35.99	28.18	18.03	4.35
Vit Min Mix [#]	0.50	0.50	0.50	0.50	0.50
Fish oil	1.00	1.00	1.00	1.00	1.00
CaCO ₃	0.50	0.50	0.50	0.50	0.50
Salt	0.50	0.50	0.50	0.50	0.50
Cellulose*	0.20	0.20	0.20	0.20	0.20
Starch	0.80	0.80	0.80	0.80	0.80
Chemical composition (%)					
Phosphorus	1.31	1.15	1.01	0.75	0.43
Available phosphorus	0.91	0.63	0.44	0.33	0.03
Calcium	1.85	1.64	1.28	0.99	0.68
Magnesium	0.25	0.24	0.28	0.27	0.27
Potassium	0.87	1.10	1.35	1.60	1.90
Sodium	54.78	51.18	43.39	31.41	20.84
Manganese	63.12	77.37	113.66	101.03	97.40
Iron (ppm)	45.02	40.77	47.59	51.14	65.53
Copper (ppm)	3.53	5.04	8.33	11.15	14.71
Zinc (ppm)	15.82	14.22	12.59	12.12	12.40
Intrinsic phytase (FTU/g)	<100	<100	<100	<100	<100

Note: # Micro mineral mix contains per kilogram: Vit A (20, 000 IU), Vit. D3 (5, 000 IU), Vit. E (300 mg), Vit K3 (10mg), Vit B1 (20 mg), Vit. B2 (25 mg), Vit. C (300 mg), Niacin (120 mg), Ca. Pantothenate (60 mg), Vit B6 (10 mg), Vit B12 (0.05), Folic acid (5 mg), Biotin (1 mg), Choline chloride (5 mg), Inositol (50 mg), Manganese (30 mg), Iron (35 mg), Zinc (45 mg), Copper (3 mg), Iodine (5 mg), Cobalt (2 mg), Lysine (85 mg), Selenium (0.15mg), Antioxidant (80 mg), Methionine (100mg). * as carboxymethyl cellulose