

**Suppl. 1: Ingredients of the animal protein-free diet used in this study.**

The chemical composition of the diet (as fed) was as follows: water 44 g/kg, crude protein 210 g/kg, crude fat 130 g/kg, crude ashes 49.7 g/kg, starch 345 g/kg, crude fibre 21.5 g/kg. Analyses of the kibbles were performed according to the AOAC International standard methods (AOAC, 2000; method 950.46 for water, method 954.01 for CP, method 920.39 for ether extract, method 920.40 for starch, method 942.05 for crude ash and method 962.09 for crude fibre).

<b>Animal protein-free diet</b>		
Composition	Maize Corn gluten Potato protein Animal fat Mineral salts Flaxseed	Fish oil Sunflower oil Dried beet pulp Dried yeast Dried chicory pulp Fructooligosaccharide <i>Yucca</i> extract
Analytical Component	Crude protein 21.5% Oils and fats 15.5% Raw fibre 2.5% Crude ash 6% Calcium 0.9% Phosphorus 0.8%	Magnesium 0.08% Potassium 0.6% Omega 6 Total 3.4% Omega 3 Total 0.52% EPA-DHA: 0.37%
Nutritional additives	Vitamin A 22,500 IU/kg Vitamin D 1,800 IU/kg Vitamin E 500 mg/kg Vitamin B1 1.3 mg/kg Vitamin B2 6 mg/kg Vitamin B12 0.03 mg/kg Nicotinic acid 14 mg/kg Folic acid 0.24 mg/kg Pantothenic acid 13 mg/kg Vitamin C 200 mg/kg Biotin 0.28 mg/kg Carnitine 200 mg/kg Taurine 2000 mg/kg Ferrous sulphate monohydrate 350 mg/kg (105 mg iron/kg)	Ferrous chelate of amino acids hydrate 200 mg/kg (32 mg iron/kg) Cupric sulphate pentahydrate 48 mg/kg (copper 12 mg/kg) Manganous sulphate monohydrate 21 mg/kg (manganese 6.5 mg/kg) Manganous chelate of amino acids hydrate 200 mg/kg (manganese 32 mg/kg) Zinc sulphate monohydrate 500 mg/kg (175 mg zinc/kg) Zinc chelate of amino acids hydrate 200 mg/kg (zinc 36 mg/kg) Calcium iodate, anhydrous 40 mg/kg (4 mg iodine/kg) Sodium selenite 34 mg/kg (0.34 mg selenium/kg).
	Additives Antioxidants	
Metabolizable energy		3,700 kcal/kg