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| **Supplementary Table 1**. Ingredients and theoretical composition of the control diet (CD) and high-fat diet (HFD) used to fed rainbow trout |
|  | Dietary treatment |
|   | CD | HFD |
| *Feed ingredients (%)* |  |  |
|  Fishmeal 70 LT 1 | 32.10 | 7.50 |
|  CPSP G 2 | 2.50 | 7.00 |
|  Wheat gluten  | 8.00 | 26.80 |
|  Soybean meal  | 10.00 | 2.00 |
|  Rapeseed meal  | 7.00 | 0.00 |
|  Wheat meal | 5.00 | 0.00 |
|  Aquatex 8071 (gel) 3 | 17.00 | 14.00 |
|  Fish oil | 9.00 | 34.00 |
|  Vit & Min Premix 4 | 1.00 | 1.00 |
|  Betaine | 0.50 | 0.50 |
|  Binder (guar gum) 5 | 2.00 | 2.00 |
|  Binder (Kieselghur) 6 | 1.00 | 1.00 |
|  Anti-OX (Paramega PX Dry)  | 0.50 | 0.50 |
|  MCP 7 | 0.00 | 1.50 |
|  Cellulose | 3.50 | 0.00 |
|  L-Lysine | 0.40 | 1.40 |
|  DL-Methionine | 0.30 | 0.30 |
|  L-Threonine | 0.20 | 0.50 |
| *Theoretical composition*  |  |  |
|  Crude protein (% DM 8) | 39.96 | 38.38 |
|  Crude fat (% DM) | 13.04 | 35.12 |
|  Fiber (% DM) | 1.63 | 0.34 |
|  Starch (% DM) | 12.54 | 9.04 |
|  Gross Energy (KJ g-1 DM) | 17.28 | 24.43 |
| 1 Danish fishmeal LT70: 710 g crude protein (CP), 110 g crude fat (CF) per Kg fishmeal.2 CPSP: Soluble fish protein concentrate.3 Aquatex 8071: 23.5% crude protein, 1.0% crude fat.4 Premix for marine fish: Vitamins (IU or mg kg-1 diet): DL-alpha tocopherol acetate, 100 mg; sodium menadione bisulphate, 25 mg; retinyl acetate, 20000 IU; DL-cholecalciferol, 2000 IU; thiamin, 30 mg; riboflavin, 30 mg; pyridoxine, 20 mg; cyanocobalamin, 0.1 mg; nicotinic acid, 200 mg; folic acid, 15 mg; ascorbic acid, 1000 mg; inositol, 500 mg; biotin, 3 mg; calcium panthotenate, 100 mg; choline chloride, 1000 mg, betaine, 500 mg. Minerals (g or mg kg-1 diet): cobalt carbonate, 0.65 mg; copper sulphate, 9 mg; ferric sulphate, 6 mg; potassium iodide, 0.5 mg; manganese oxide, 9.6 mg; sodium selenite, 0.01 mg; zinc sulphate,7.5 mg; sodium chloride, 400 mg; calcium carbonate, 1.86 g; excipient wheat middlings. 5 Guar gum HV109. 6 Kieselghur (natural zeolite).7 MCP: Monobasic calcium phosphate: 18 % phosphorus, 23 % calcium.8 DM: Dry matter. |