Supplemental table 1.

Formulation of experimental diets

|  |  |  |
| --- | --- | --- |
| Ingredient (%) | CT (TD.110294)\* | HF (TD.110297)\* |
| Casein✝ | 20.9 | 20.9 |
| Fiber | 5.0 | 5.0 |
| Lipids |  |  |
| Soybean oil  | 7.0 | 7.0 |
| Lard | - | 25.0 |
| L-cystine | 0.3 | 0.3 |
| Choline bitartarate (41.1% choline) | 0.25 | 0.25 |
| Vitamin mixture‡ | 1.0 | 1.0 |
| Mineral mixture§ | 3.5 | 3.5 |
| Sucrose | 10.0 | 10.0 |
| Corn starch | 52.95 | 27.95 |
| Antioxidant (TBHQ) ║ | 0.0014 | 0.0014 |

\*Semipurified and pelleted diets, purchased from Harlan Teklad Laboratories. CT, control diet; HF, high-fat diet

✝Casein = 85% protein (N × 6.25)

‡AIN-93-VX vitamin mixture(14)

§Formulated with FeSO4.H2O: 49 mg Fe/kg diet

║ TBHQ, tertiary butylhydroquinone

Supplemental table 2.

Haematological parameters of growing rats fed control (*ad libitum* and pair-fed) or high-fat diets for 2, 4 and 8 weeks (Wk 2, Wk 4 and Wk 8, respectively)1

(Median values and interquartile range (percentiles 25th–75th), *n* 7 for CT and PF groups, *n* 10 for HF group)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Analyses | CT |  | PF |  | HF | *P* |
| Median | 25th–75th percentile |  | Median | 25th–75th percentile |  | Median | 25th–75th percentile |
| RBC (× 106/mm3)Wk 2Wk 4 Wk 8 | 5.86.67.5 | (5.1–7.2)a(6.5–7.5)a(7.3–8.0)a |  | 6.27.07.7 | (5.7–6.6)a(6.3–7.1)a(7.4–7.9)a |  | 6.06.87.7 | (5.4–6.9)a(6.1–7.0)a(7.6–8.2)a | NSNSNS |
| Haemoglobin (g/l)Wk 2Wk 4 Wk 8 | 12.614.314.7 | (10.8–15.7)a(13.8–14.6)a(14.1–15.3)a |  | 13.514.714.8 | (11.8–13.9)a(13.6–14.9)a(14.5–15.1)a |  | 13.114.515.0 | (11.2–15.2)a(12.8–15.1)a(14.6–15.6)a | NSNSNS |
| Haematocrit (%)Wk 2Wk 4 Wk 8 | 37.847.344.3 | (31.4–44.9)a(40.9–49.8)a(42.9–45.5)a |  | 38.142.344.6 | (36.2–39.5)a(37.8–49.8)a(41.5–45.2)a |  | 36.443.643.9 | (32.1–44.1)a(43.0–45.9)a(42.9–44.9)a | NSNSNS |
| MCV (fl)Wk 2Wk 4 Wk 8 | 64.067.058.0 | (61.7–65.5)a(62.0–70.0)a(56.5–59.5)a |  | 60.060.558.0 | (60.0–63.0)a(60.0–69.5)a(56.0–59.0)a |  | 61.064.056.5 | (59.0–63.0)a(61.7–70.2)a(55.7–58.0)a | NSNSNS |
| MCH (pg)Wk 2Wk 4 Wk 8 | 21.821.319.5 | (21.2–22.2)a(19.5–21.7)a(18.9–19.5)a |  | 20.721.219.5 | (20.5–21.8)a(20.5–22.3)a(18.6–20.1)a |  | 21.720.919.2 | (20.5–22.3)a(20.6–21.6)a(18.9–19.6)a | NSNSNS |
| MCHC (g/dl)Wk 2Wk 4 Wk 8 | 33.831.033.7 | (33.1–35.3)a(29.2–34.9)a(32.4–34.0)a |  | 34.735.133.8 | (34.3–35.5)a(29.5–36.8)a(33.2–34.1)a |  | 34.832.534.2 | (34.2–36.3)a(31.5–33.8)a(33.9–34.6)a | NSNSNS |
| WBC (103/mm3)Wk 2Wk 4 Wk 8 | 1.52.04.0 | (1.1–2.1)a(1.3–5.6)a(3.9–4.1)a |  | 2.12.73.2 | (1.9–4.5)a(1.3–5.6)a(0.7–4.9)a |  | 1.81.21.3 | (1.1–2.4)a(0.9–3.2)a(1.1–3.1)a | NSNSNS |
| Reticulocytes (%)Wk 2Wk 4 Wk 8 | 3.82.10.5 | (2.7–4.6)a(1.4–2.5)a(0.3–1.5)a |  | 3.01.50.7 | (2.0–3.3)a(0.9–2.9)a(0.3–0.8)a |  | 3.01.51.0 | (2.2–5.1)a(1.2–2.1)a(0.5–1.5)a | NSNSNS |

CT, *ad libitum* control group; PF, pair-fed control group; HF, high-fat group; RBC, red blood cells; MCV, mean corpuscular volume; MCH, mean corpuscular haemoglobin; MCHC, mean corpuscular haemoglobin concentration; WBC, white blood cells.

a,b Different letters within the same rows indicates values signiﬁcantly different according Kruskal-Wallis or one-way ANOVA tests followed by Dunn’s or Tukey *post hoc* tests.Differences are considered significantly different at *p* < 0.05