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 2  Wk 4  Wk 8 | 5.8  6.6  7.5 | (5.1–7.2)a  (6.5–7.5)a  (7.3–8.0)a |  | 6.2  7.0  7.7 | (5.7–6.6)a  (6.3–7.1)a  (7.4–7.9)a |  | 6.0  6.8  7.7 | (5.4–6.9)a  (6.1–7.0)a  (7.6–8.2)a | NS  NS  NS |
| Haemoglobin (g/l)  Wk 2  Wk 4  Wk 8 | 12.6  14.3  14.7 | (10.8–15.7)a  (13.8–14.6)a  (14.1–15.3)a |  | 13.5  14.7  14.8 | (11.8–13.9)a  (13.6–14.9)a  (14.5–15.1)a |  | 13.1  14.5  15.0 | (11.2–15.2)a  (12.8–15.1)a  (14.6–15.6)a | NS  NS  NS |
| Haematocrit (%)  Wk 2  Wk 4  Wk 8 | 37.8  47.3  44.3 | (31.4–44.9)a  (40.9–49.8)a  (42.9–45.5)a |  | 38.1  42.3  44.6 | (36.2–39.5)a  (37.8–49.8)a  (41.5–45.2)a |  | 36.4  43.6  43.9 | (32.1–44.1)a  (43.0–45.9)a  (42.9–44.9)a | NS  NS  NS |
| MCV (fl)  Wk 2  Wk 4  Wk 8 | 64.0  67.0  58.0 | (61.7–65.5)a  (62.0–70.0)a  (56.5–59.5)a |  | 60.0  60.5  58.0 | (60.0–63.0)a  (60.0–69.5)a  (56.0–59.0)a |  | 61.0  64.0  56.5 | (59.0–63.0)a  (61.7–70.2)a  (55.7–58.0)a | NS  NS  NS |
| MCH (pg)  Wk 2  Wk 4  Wk 8 | 21.8  21.3  19.5 | (21.2–22.2)a  (19.5–21.7)a  (18.9–19.5)a |  | 20.7  21.2  19.5 | (20.5–21.8)a  (20.5–22.3)a  (18.6–20.1)a |  | 21.7  20.9  19.2 | (20.5–22.3)a  (20.6–21.6)a  (18.9–19.6)a | NS  NS  NS |
| MCHC (g/dl)  Wk 2  Wk 4  Wk 8 | 33.8  31.0  33.7 | (33.1–35.3)a  (29.2–34.9)a  (32.4–34.0)a |  | 34.7  35.1  33.8 | (34.3–35.5)a  (29.5–36.8)a  (33.2–34.1)a |  | 34.8  32.5  34.2 | (34.2–36.3)a  (31.5–33.8)a  (33.9–34.6)a | NS  NS  NS |
| WBC (103/mm3)  Wk 2  Wk 4  Wk 8 | 1.5  2.0  4.0 | (1.1–2.1)a  (1.3–5.6)a  (3.9–4.1)a |  | 2.1  2.7  3.2 | (1.9–4.5)a  (1.3–5.6)a  (0.7–4.9)a |  | 1.8  1.2  1.3 | (1.1–2.4)a  (0.9–3.2)a  (1.1–3.1)a | NS  NS  NS |
| Reticulocytes (%)  Wk 2  Wk 4  Wk 8 | 3.8  2.1  0.5 | (2.7–4.6)a  (1.4–2.5)a  (0.3–1.5)a |  | 3.0  1.5  0.7 | (2.0–3.3)a  (0.9–2.9)a  (0.3–0.8)a |  | 3.0  1.5  1.0 | (2.2–5.1)a  (1.2–2.1)a  (0.5–1.5)a | NS  NS  NS |

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