***animal* journal**

**Influence of dietary strategy on progression of health and behaviour in mule ducks reared for fatty liver production**

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**Table S1** Table of ingredients and main nutrients in ducks’ diets.

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Starter** | **Growth** | **Finishing** |
| *Ingredient (%)* | | | |
| Wheat | 39.9 | 30.8 | 39.9 |
| Corn | 15.1 | 10.4 | 26.1 |
| Barley | 9.8 | 30.0 | — |
| Soybean meal | 4.4 | — | — |
| Sunflower cake | 10.0 | 12.3 | 13.5 |
| Alfalfa |  |  | 12.5 |
| Defatted rapeseed meal | 7.0 | 24.0 | — |
| Corn distillers | 8.0 | 5.1 | 6.2 |
| Beet molasses | 1.0 | — | — |
| Bran | 1.5 | 7.6 | — |
| Calcium carbonate | 1.6 | 2.3 | 0.6 |
| Dicalcium phosphate | 0.5 | 0.2 | 0.1 |
| Salt | 0.2 | 0.3 | 0.2 |
| Lysine | 0.2 | 0.6 | 0.6 |
| Methionine | 0.1 | 0.2 | 0.2 |
| Vitamin and mineral premix | 0.2 | 0.2 | 0.2 |
| *Calculated composition (% raw material except ME)* | | | |
| Metabolised Energy (ME, MJ/kg) | 2800 | 2725 | 2750 |
| CP | 17.5 | 14.8 | 14.5 |
| Fat | 2.4 | 2.1 | 2.3 |
| Cellulose | 5.6 | 5.9 | 8.6 |
| Ash | 5.5 | 5.7 | 4.4 |
| Starch | 42.0 | 43.4 | 42.0 |
| Lysine | 0.8 | 0.8 | 0.8 |
| Methionine | 0.4 | 0.4 | 0.4 |
| Methionine + cysteine | 0.7 | 0.7 | 0.7 |

ME: metabolised energy



**Figure S1** Feed intake (without water) of ducks during the overfeeding period according to feeding strategy (moderate (MI) or high (HI) feed intake).



**Figure S2** Levels of occurrence and progression between assessment stages (BEF: before overfeeding; BEG: beginning of overfeeding; MID: middle of overfeeding; END: end of overfeeding) of the different indicators measured in ducks.