**Changes in body composition and meat quality in response to dietary amino acid provision in finishing broilers**

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*animal* - an International Journal of Animal Biosciences

**Table S1.** Composition (g/kg) measured in experimental diets fed to chickens from day21 to day36.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Diets | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| AA1 | AA- | AA- | AA- | AA- | AAc | AAc | AAc | AAc | AA+ | AA+ | AA+ | AA+ |
| Lys2 | L1 | L2 | L3 | L4 | L1 | L2 | L3 | L4 | L1 | L2 | L3 | L4 |
| Dry matter (%) | 89.3 | 89.6 | 89.8 | 89.6 | 89.7 | 89.7 | 90.1 | 90.0 | 89.7 | 90.0 | 90.3 | 89.5 |
| Crude protein | 139 | 164 | 183 | 209 | 146 | 176 | 201 | 223 | 157 | 190 | 215 | 248 |
| **Lys** | **8.0** | **9.7** | **11.4** | **13.1** | **8.1** | **9.8** | **11.3** | **13.3** | **8.2** | **10.0** | **11.3** | **13.3** |
| Met | 2.7 | 3.6 | 4.3 | 5.2 | 3.2 | 4.1 | 4.9 | 5.9 | 3.8 | 4.6 | 5.5 | 6.2 |
| Met+Cys | 5.1 | 6.2 | 7.1 | 8.4 | 5.7 | 7.0 | 8.1 | 9.3 | 6.4 | 7.5 | 8.9 | 9.9 |
| Trp | 1.5 | 1.8 | 2.2 | 2.5 | 1.6 | 2.0 | 2.3 | 2.7 | 1.8 | 2.2 | 2.5 | 2.9 |
| Thr | 4.8 | 5.7 | 6.4 | 7.4 | 5.2 | 6.3 | 7.1 | 8.3 | 5.6 | 6.7 | 7.7 | 9.0 |
| Leu | 12.2 | 13.6 | 14.8 | 16.5 | 12.8 | 15.1 | 16.9 | 19.2 | 13.4 | 16.3 | 18.5 | 21.4 |
| Ile | 5.3 | 6.5 | 7.4 | 8.5 | 5.8 | 7.2 | 8.3 | 9.7 | 6.3 | 7.7 | 8.8 | 10.2 |
| Val | 6.2 | 7.4 | 8.3 | 9.4 | 6.7 | 8.1 | 9.2 | 10.6 | 7.2 | 8.7 | 9.9 | 11.4 |
| Arg | 7.6 | 9.4 | 11.3 | 13.0 | 8.5 | 10.6 | 11.9 | 14.2 | 9.3 | 11.3 | 12.8 | 15.2 |
| His | 3.5 | 4.1 | 4.6 | 5.2 | 3.7 | 4.4 | 4.9 | 5.7 | 4. | 4.7 | 5.1 | 5.9 |
| Phe | 6.5 | 7.7 | 8.7 | 9.9 | 7.0 | 8.6 | 9.7 | 11.3 | 7.5 | 9.2 | 10.5 | 12.2 |
| Tyr | 4.6 | 5.4 | 6.2 | 7.1 | 5.0 | 6.1 | 7.0 | 8.1 | 5.3 | 6.6 | 7.5 | 8.8 |

AA = amino acids; Lys = lysine; EAA = essential amino acids; Met = methionine; Cys = cysteine; Trp = tryptophan; Thr = threonine; Leu = leucine; Ile = isoleucine; Val = valine; Arg = arginine; His = histidine; Phe = phenylalanine; Tyr = tyrosine

1 AA, diets with a low (AA-), control (AAc) and high amount (AA+) of other EAA calculated in relation to Lys corresponding to 90, 100 and 110% of the optimum AA profile of Mack *et al*. (1999), respectively

2 Lys, diets with a digestible Lys content of 7, 8.5, 10 and 11.5 g/kg (L1, L2, L3 and L4, respectively)