**Table S3 Elementary statistics of body composition, intestinal density, ratio of proventriculus to gizzard weights and pH of gizzard and intestine in F2 birds at 23 d**

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| **Trait1** | **N** | **Mean** | **Standard deviation** |
| BRY (%) | 803 | 4.172 | 1.774 |
| AFY (%) | 804 | 0.466 | 0.188 |
| PRW/GW (g.g-1) | 805 | 0.395 | 0.098 |
| DUD (cm.g-1) | 803 | 0.262 | 0.054 |
| JED (cm.g-1) | 803 | 0.215 | 0.034 |
| ILD (cm.g-1) | 803 | 0.173 | 0.032 |
| IND (cm.g-1) | 797 | 0.209 | 0.029 |
| PHG | 667 | 3.827 | 0.600 |
| PHJ | 798 | 6.268 | 0.189 |

1 BRY (AFY): breast (abdominal fat) yield; PRW/GW: proventriculus weight to gizzard weight ratio; DUD, JED, ILD, IND: density of duodenum, jejunum, ileum, and small intestine; PHG (PHJ): pH of gizzard (jejunum) content