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Higher slaughter weight affects broiler meat quality and bird welfare

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Supplementary Table 1. Ingredients and nutrient composition of the diets fed to experimental broiler birds

Ingredient	Experimental diet per 1000 kg		
	Prestarter (0-10 d)	Starter (11-28 d)	Finisher (29-48 d)
Maize (kg)	635	640	667
DOC 44% (kg)	100	0	0
DOC HYPRO (kg)	220	270	245
DORB (kg)	0	40	30
Soyabean oil (kg)	5	10	20
Salt (kg)	2.5	5	2.5
Sodium bicarbonate (kg)	1	2	1
Vitamin premix (kg)	0.6	1	0.5
Mineral mixture organic (kg)	0.25	0.5	0.25
DL-methionine (kg)	3.1	5.8	2.7
Lysine (kg)	2.6	5.8	1.75
Threonine (kg)	1	1	0.5
Robinidine (kg)	0.350	-	-
Enzyme (kg)	0.2	0.4	0.2
Phytase (kg)	0.125	0.25	0.15
Emulsifier (kg)	0.3	0.6	0.5
Choline chloride (kg)	1.4	2.8	1.4
Toxin binder (kg)	1	2	1
Mono calcium phosphate (kg)	11.5	11	10
Limestone powder (kg)	13	12	15
Liver tonic (kg)	1	2	1
Protease (kg)	0.4	0.6	0.2
Rapigrow (kg)	0.25	0.5	-
Diclazuril (kg)	-	0.4	-
Antioxidant (kg)	-	0.2	0.1
Mineral mixture inorganic (kg)	-	1.5	0.75
Madura (kg)	-	-	0.5
BMD (kg)	-	-	0.25
Proximate analysis of the experimental diets (% dry matter basis)			
Dry matter	88.9	89.3	90.2
Crude protein	23.4	21.8	20.1
Ether extract	4.09	5.20	6.30
Crude fibre	3.68	3.50	3.32
N.F. E	62.61	63.18	63.79
Total ash	6.22	6.32	6.49
ME (Kcal/kg)	3154	3252	3280

Supplementary Table 2. Effect of different slaughter weights on carcass yield

Group no.	G1	G2	G3	G4	G5	G6	SEM	P-value
Live weight (kg)	1.0-1.2	1.5-1.7	2.1-2.2	2.5-2.7	2.8-3.0	3.3-3.5		
Carcass traits (%)								
Dressing	67.26^{c}	66.73^{c}	66.99^{c}	70.58^{b}	71.38^{b}	73.40^{a}	0.43	P<0.001
Breast	24.52^{c}	24.83^{c}	26.70^{b}	27.81^{b}	27.95^{b}	29.96^{a}	0.36	P<0.001
Thigh	7.73	8.87	8.59	9.18	9.04	9.21	0.18	0.128
Drumstick	8.58	7.90	8.34	8.44	11.05	8.73	1.03	0.443
Back	10.99	10.50	10.53	10.59	13.81	10.40	1.34	0.545
Neck	2.50^{b}	2.22^{b}	2.49^{b}	2.72 ^{b}	2.70 ^{a}	2.34^{b}	0.16	P<0.001
Wing	5.41^{b}	5.20^{b}	5.53^{b}	5.86^{b}	5.70^{a}	5.69^{b}	0.16	P<0.05
Giblet	5.54^{a}	5.13^{b}	4.71^{c}	4.41^{cd}	4.23^{d}	4.09^{d}	0.09	P<0.001
Abdominal fat	1.74	1.90	1.83	1.77	1.83	1.50	0.05	0.205

SEM is standard error of difference between mean values. P-value is probable significance value.