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Animal Production Science

Supplementary Material

Phytase super-dosing modulates bone parameters and the concentration of the calcium epithelial carrier calbindin-D28k in quails (*Coturnix coturnix japonica*) under thermal stress

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Supplementary Table S1. Mean values of feed intake (FI), total egg production (TEP), and Eggshell thicknesses (ET) of Japanese quails fed with different doses of phytase and subjected to three temperatures.

Parameters	Temperature	Phytase (FTU/Kg)					Mean	CV%	<i>p</i> -Value			
		0	500	1000	1500	3000			Temperature	Phytase	Temp x Phy	Regression
FI, g/bird/day	24	18.931	19.701	19.596	19.484	19.849	19.512a	7.737	<0.0001	0.3491	0.9608	NS
	30	19.705	19.978	20.309	19.997	19.407	19.879a					
	36	15.024	16.179	16.484	16.118	15.471	15.855b					
	Mean	17.887	18.619	18.796	18.533	18.242						
TEP, %	24	66.013	66.749	68.071	70.074	65.365	67.254b	11.670	<0.0001	0.7607	0.9266	NS
	30	80.549	76.297	82.280	80.740	77.122	79.398a					
	36	66.379	64.943	64.313	61.510	62.570	63.943b					
	Mean	70.980	69.330	71.555	70.775	68.352						
ET, mm	24	0.427a	0.406a	0.410a	0.404b	0.406a	0.411	3.6018	0.1180	0.0329	<0.0001	NS
	30	0.402b	0.395a	0.411a	0.399b	0.407a	0.403					
	36	0.387b	0.398a	0.394a	0.443a	0.412a	0.407					
	Mean	0.405	0.399	0.405	0.415	0.408						

CV% = Coefficient of variation; NS = Not significant. Means followed by different letters in the columns compare temperatures within each phytase concentration, by Tukey's test ($p < 0.05$).