

Performance Potential of PHYTOCEE® in Poultry: Impact on egg production and egg defects

OBJECTIVE

To evaluate the Impact of PHYTOCEE® on egg production and egg defects in BV-300-layer chickens.

MATERIALS AND METHODS

The trial was conducted in a total of 320 one-day-old broiler chicks were randomly assigned to two groups viz. G1: Normal Control & G2: PHYTOCEE® treatment group (200 g/ton). Effect of PHYTOCEE® on egg production (egg weight, egg production % and egg mass), feed intake, egg quality parameters were assessed. Duration of the treatment for 42 days & the data collected on day 7, 14, 21, 28, 35 and 42.

RESULTS

Effect of PHYTOCEE® on egg production and egg defects with egg quality parameters in BV-300-layer chickens. Please use only egg production as parameter.

Egg Parameters								
Week	Egg Production		Feed intake per egg mass (g)		Egg weight (g)		Shell less (defects)	
	Control	Phytocee (200g/ton)	Control	Phytocee (200g/ton)	Control	Phytocee (200g/ton)	Control	Phytocee (200g/ton)
Week 1 (65 week)	85.78	86.06	2.164	2.152	59.69	59.18	2.525	2.283
Week 2 (66 week)	85.6	86.25	2.022	2.026	60.45	60.08	1.55	1.863
Week 3 (67 week)	87.09	87.47	2.086	2.078	56.69	57.08	2.322	2.721
Week 4 (68 week)	87.1	88.03	1.996	2.008	59.43	59.23	3.103	1.971
Week 5 (69 week)	82.97	83.16	2.076	2.135	59.57	58.37	1.955	1.374
Week 6 (70 week)	83.34	84.47	2.112	2.131	58.96	57.97	1.931	1.496
Week (1-6)	85.31	85.91	2.076	2.088	59.13	58.65	2.23	1.953

Values are expressed as Mean; n=160
Phytocee supplementation decreased the defects such as shell less eggs during treatment period

Egg Quality Parameters						
Parameters	3 weeks			6 weeks		
	Control	Phytocee (200g/ton)	P - value	Control	Phytocee (200g/ton)	P - value
Egg Density (g/cm ³)	1.028	1.035	0.209	1.002	1.004	0.978
Egg Strength (N)	12.02	13.85	0.208	14.8	14.55	0.918
Haugh Unit	50.2	55.1	0.213	56.9	61.05	0.536
Shell Weight (gm)	5.034	5.07	0.812	5.084	5.232	0.346
Shell Thickness (mm)	0.361	0.362	0.849	0.363	0.37	0.401
Shell %	8.99	9.019	0.891	8.346	8.641	0.66

Values are expressed as Mean; n=20

CONCLUSIONS

Supplementation of PHYTOCEE® demonstrated significant improvement in the egg density, egg strength, Haugh unit, shell weight, shell thickness and shell % during treatment period. And improved the egg production in all the weeks of treatment groups as compared to control group. It decreased the egg defects such as shell less eggs during treatment period (week 1, 4, 5 & 6).

OUTCOME

Hence, PHYTOCEE® could be used as a natural & effective supplement to enhance egg production while mitigating the egg defects in BV-300-layer chickens.