

Effect of synbiotics (Synbac™) on broiler performance

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Abstract

Combination of probiotics and prebiotics (Synbiotics) is considered to use for stabilize beneficial microorganisms in poultry gut system. Various publications have been reported healthy gut of bird is a key role to maintain good health status and improving growth performance. Hence, we conducted an experiment in poultry farm to evaluate efficacy of commercial synbiotics (Synbac™) in broiler production. Field trial was conducted with two flocks of broiler, one of which is Ross and another is Arbor Acres. Birds in both flocks were separated into two groups. Treatment groups were supplemented with synbiotics in drinking water. At age 6-12 days old, birds were received synbiotics (1g of product per 5 liter of water) everyday and after 12 days old (19-22, 29-35 and 38-40 days old) birds were received synbiotics (1 g of product per 10 liter of water) 3 days a week. Birds were culled at 40 days of age. Feed consumption, initial weight, final weight and number of bird were collected to evaluate growth performance, livability and Productive Index (PI). Results are shown in Table 1. Average Daily Gain (ADG), Feed Conversion Ratio (FCR) and PI were improved in treatment group of both two flocks. Percentage of bird livability over 40 days of study period was increased. Data suggested supplementation of synbiotic in broiler benefits in improve growth performance and increase livability.

Keywords

Broiler, synbiotics, growth performance

Table 1 Effects of synbiotics on broiler production

	Field trial I (ROSS)			Field trial II (Arbor Acres)		
	Cont.	Treat.	Improve	Cont.	Treat.	Improve
No.of bird (bird)	26,112	26,520		17,850	17,850	
Sex	male	male		male	male	
% livability	95.84	96.69	0.85	97.11	97.57	0.46
Body weight (kg)	2.53	2.55	0.02	2.54	2.62	0.08
ADG (g/day)	63.85	64.36	0.51	62.50	64.50	2
FCR	1.72	1.66	(-) 0.06	1.67	1.63	(-) 0.04
PI	359	379	20	369	392	23