184 Evaluation of Aviplus on Growth Performance of Nursery and Growing-finishing Pigs.
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A total of 1,215 pigs (L337×1050, PIC, Hendersonville, TN) were used in a 156-d wean-to-finish experiment. Pigs were weaned at 21 d of age and placed in pens based on initial body weight (BW) with 27 pigs/pen. There were three dietary treatments including a: 1) control; 2) pigs fed diets containing AviPlus (microencapsulated sorbic and citric acids and synthetic thymol and vanillin botanicals; Vetagro Inc., Chicago, IL) during the nursery and finisher phases; or 3) pigs fed AviPlus during the nursery but not the finishing phase. AviPlus was included at 2.72 kg/ton from d 0 to 21, 0.90 kg/ton from d 21 to 42, and 0.45 kg/ton from d 42 to 156. Thus, there were 15 control pens and 30 Aviplus pens in the nursery and 15 pens for the 3 treatments in the finisher phase. On d 42, pigs were transported as intact pens to the finishing facility. Data were analyzed as a RCBD with pen as experimental unit. For the overall nursery period (d 0 to 42), pigs fed AviPlus had improved (P < 0.05) G:F, with no evidence of difference (P > 0.05) for d 42 BW, ADG, or ADFI. For the overall finishing period (d 42 to 156) and overall experimental period (d 0 to 156), there was no evidence of difference (P > 0.05) for BW, ADG, ADFI, or G:F. There was no evidence of difference (P > 0.05) observed for mortality and removals during the nursery, finisher, or overall. In summary, providing AviPlus during the nurserv improved nursery G:F, but there was no effect on overall wean-to-finish performance.

Table 1. Evaluation of AviPlus on Growth Performance of Nursery and Growing-Finishing Pigs

	Nursery Performance				
Trait ¹	Control	Added AviPlus ²		SEM	P-value
d 0 to 42					
ADG, g	383	385		5.37	0.867
ADFI, g	580	573		8.37	0.544
G:F, g/kg	660	670		3.00	0.023
	Grow-finish performance				
		Added AviPlus			
Trait	Control	Nursery and finisher	Only in nursery	SEM	P -value
d 42 to 156					
ADG, g	919	908	922	5.40	0.187
ADFI, g	2,344	2,341	2,353	22.00	0.917
G:F, g/kg	392	388	392	17.00	0.463
d 0 to 156					
ADG, g	756	747	757	4.05	0.125
ADFI, g	1,809	1,797	1,807	17.26	0.858
G:F, g/kg	418	416	419	2.00	0.593
Mortality and removals, %	16.8	17.7	17.0	1.90	0.928

w = Body weight, ADG = Average Daily Gain, ADF1 = Average Daily Feed Intake, GF = Feed efficiency. A combination of micro-encapsulated sorbic and citric acids and synthetic thymol and vanillin botanicals; Vetagro, Inc. Chicago, IL

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