

Table 3. Interactive effects of antibiotic and By-O-Reg+ on nursery pig growth performance^{1,2}

Antibiotic ³ Added By-O- Reg+, lb/ton ⁴							Probability, <i>P</i> <					
	-			+			By-O-Reg+			Interaction		
	0	1	2	0	1	2	SEM	Linear	Quadratic	Ab	Linear	Quadratic
d 0 to 21												
ADG, lb	0.42	0.44	0.43	0.47	0.47	0.49	0.010	0.215	0.463	<0.0001	0.455	0.105
ADFI, lb	0.57	0.56	0.55	0.59	0.58	0.61	0.013	0.984	0.353	0.007	0.186	0.564
F/G	1.36	1.25	1.30	1.25	1.22	1.23	0.023	0.128	0.016	<0.0001	0.394	0.108
d 21 to 35												
ADG, lb	1.07	1.04	1.04	1.04	1.09	1.09	0.026	0.767	0.882	0.247	0.161	0.468
ADFI, lb	1.60	1.56	1.56	1.59	1.65	1.66	0.029	0.482	0.920	0.007	0.039	0.303
F/G	0.67	0.67	0.66	0.66	0.66	0.66	0.011	0.872	0.867	0.384	0.803	0.906
d 0 to 35												
ADG, lb	0.68	0.68	0.67	0.70	0.72	0.73	0.013	0.380	0.729	0.001	0.154	0.837
ADFI, lb	0.98	0.96	0.96	0.99	1.00	1.03	0.013	0.529	0.517	0.001	0.031	0.733
F/G	1.45	1.41	1.43	1.41	1.40	1.40	0.016	0.446	0.141	0.087	0.732	0.363
BW, lb												
d 0	12.54	12.53	12.42	12.46	12.39	12.54	0.882	0.870	0.728	0.641	0.250	0.308
d 21	21.38	21.86	21.29	22.13	22.09	22.86	2.529	0.225	0.782	<0.0001	0.123	0.042
d 35	35.66	35.70	35.68	36.51	36.66	37.89	6.67	0.289	0.654	0.015	0.307	0.624

¹A total of 717 nursery pigs (PIC C-29 x 28 and PIC L3-1050 x 1040, group 1 initially 12.8 ± .10, group 2 initially 12.2 ± .06 lb BW) were used in two consecutive 35-d studies with 10 pigs per pen and 12 replications per treatment.

²Experimental diets were fed from d 0 to d 21 and a common diet was fed for the remainder of the study.

³Mecadox 10 (Phibro Animal Health, Teaneck, NJ) containing Carbadox at 10 g/lb, was added at 5 lb/ton to the antibiotic treatments.

⁴By-O-Reg+ (Advanced Ad Products, Hudson, SD).

Table 4. Main effects of antibiotics or By-O-Reg+ on nursery pig growth performance^{1,2}

Item	Antibiotic ³		SEM	By-O-Reg+ (lb/ton)			SEM	Probability, <i>P</i> <		
	-	+		0	1	2		By-O-Reg+		Ab
								Linear	Quadratic	
d 0 to 21										
ADG, lb	0.43	0.48	0.009	0.45	0.46	0.46	0.010	0.215	0.463	0.0001
ADFI, lb	0.56	0.59	0.045	0.58	0.57	0.58	0.046	0.984	0.353	0.007
F/G	1.30	1.23	0.077	1.30	1.24	1.27	0.078	0.128	0.016	0.0003
d 21 to 35										
ADG, lb	1.05	1.07	0.015	1.06	1.06	1.06	0.018	0.787	0.882	0.247
ADFI, lb	1.57	1.63	0.022	1.59	1.60	1.61	0.024	0.482	0.920	0.007
F/G	0.66	0.66	0.008	0.66	0.66	0.66	0.009	0.872	0.867	0.384
d 0 to 35										
ADG, lb	0.68	0.71	0.008	0.69	0.70	0.70	0.009	0.380	0.729	0.001
ADFI, lb	0.96	1.00	0.034	0.98	0.98	0.99	0.034	0.529	0.517	0.001
F/G	1.43	1.41	0.040	1.43	1.40	1.42	0.040	0.446	0.141	0.087
BW, lb										
d 0	12.50	12.46	2.818	12.50	12.46	12.48	2.841	0.870	0.728	0.641
d 21	21.51	22.36	4.589	21.76	21.98	22.07	4.701	0.225	0.782	0.001
d 35	35.68	37.02	3.792	36.08	36.18	36.78	4.644	0.290	0.654	0.015

¹A total of 717 nursery pigs (PIC C-29 x 28 and PIC L3-1050 x 1040, group 1 initially 12.8 ± .10, group 2 initially 12.2 ± .06 lb BW) were used in two consecutive 35-d studies with 10 pigs per pen and 6 replications per treatment.

²Experimental treatment diets were fed from d 0 to d 21.

³Mecadox 10 (Phibro Animal Health, Teaneck, NJ) containing Carbadox at 10 g/lb was added to antibiotic treatment groups at 5 lb/ton.

⁴By-O-Reg+ (Advanced Ad Products, Hudson, SD).