



## Three Trial Summary Demonstrating Mecadox® Effectiveness at Increasing Body Weight, Average Daily Gain and Average Daily Feed Intake in Swine

The medicated feed additive, Mecadox, has been used for over 45 years in nursery pigs to improve live performance in addition to offering a safe and effective control of enteric pathogens, including *Salmonella choleraesuis*, a cause of salmonellosis, and *Brachyspira hyodysenteriae*, a cause of swine dysentery. In three different, but similar studies, Mecadox at 50 g/t was compared to a negative control diet to determine if potential live performance response differences were repeatable.

All three studies were conducted in the same facility over a period of approximately 16 months with the same pen and feed setup. Pigs in studies one and two were placed on test at  $27 \pm 3$  days and fed for either 40 or 42 days. Pigs in study three were placed on test at  $21 \pm 3$  days and fed for 49 days. All three studies received pigs from two different sow farms where all pigs had a history of enteric challenges and were considered of average health or better, were from APP and PEDv naïve herds and were considered PRRSv stable.

- Mecadox fed pigs averaged **8.99 additional pounds** verses the negative control pigs at the end of each of the three trials.
- Mecadox fed pigs averaged **0.206 pounds increase** in Average Daily Gain (ADG) over the negative control pigs.
- Mecadox fed pigs averaged **0.200 pounds per day greater** for Average Daily Feed Intake (ADFI) than the negative control pigs.

Study 1: A total of 200 pigs with 10 equal sexed pigs per pen, 10 replicates for each treatment.

	BW at day 40 (lb)	ADG 0 to 40 (lb/day)	ADFI 0 to 40 (lb/day)
Negative Control	51.92 <sup>b</sup>	0.912 <sup>b</sup>	1.573 <sup>b</sup>
<b>Mecadox</b>	<b>63.44<sup>a</sup></b>	<b>1.199<sup>a</sup></b>	<b>1.856<sup>a</sup></b>
LSMeans Diff Actual	11.52	0.287	0.283

Different superscripts differ significantly ( $P < 0.05$ )  
Swine Research Services Inc. 2018/2019

Study 2: A total of 180 pigs with 10 equal sexed pigs per pen, 9 replicates for each treatment.

	BW at day 42 (lb)	ADG 0 to 42 (lb/day)	ADFI 0 to 42 (lb/day)
Negative Control	59.23 <sup>b</sup>	1.025 <sup>b</sup>	1.660 <sup>b</sup>
<b>Mecadox</b>	<b>64.11<sup>a</sup></b>	<b>1.141<sup>a</sup></b>	<b>1.795<sup>a</sup></b>
LSMeans Diff Actual	4.88	0.116	0.135

Different superscripts differ significantly ( $P < 0.05$ )  
Swine Research Services Inc. 2019

Study 3: A total of 200 pigs with 10 equal sexed pigs per pen, 10 replicates for each treatment.

	BW at day 49 (lb)	ADG 0 to 49 (lb/day)	ADFI 0 to 49 (lb/day)
Negative Control	63.99 <sup>b</sup>	1.028 <sup>b</sup>	1.659 <sup>b</sup>
<b>Mecadox</b>	<b>74.56<sup>a</sup></b>	<b>1.243<sup>a</sup></b>	<b>1.840<sup>a</sup></b>
LSMeans Diff Actual	10.57	0.215	0.181

Different superscripts differ significantly ( $P < 0.05$ )  
Swine Research Services Inc. 2020

<b>AVERAGES for all 3 studies for LSMeans Diff Actual</b>	<b>8.99</b>	<b>0.206</b>	<b>0.200</b>
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For more information, contact your Phibro Representative at 888.475.7355.