Improves pig performance in a wide range of health and growing conditions
The *Mecadox* Advantage

Over the years, *Mecadox* medicated feed additive has proven to be a cost-effective management tool for improving pig performance in a wide range of health and management situations.

Numerous studies have documented that *Mecadox* use improves rate and efficiency of pig growth regardless of health status, genetic capacity for lean growth, animal density, facility type or pig management practices.

Improve pig performance, even in limited space conditions.

When animal flow schedules get pressured or during the last weeks in the nursery, pig space can be limited. *Mecadox* helps maintain pig performance in these situations.

Effect of *Mecadox* in Nursery Pigs Reared in Limited or Adequate Floor Space

<table>
<thead>
<tr>
<th>Day 0 to 28</th>
<th>Pen space</th>
<th>Mecadox, g/ton</th>
<th>Unit change</th>
<th>Percentage change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>ADG (lb/day)*</td>
<td>Limited</td>
<td>0.597</td>
<td>0.771</td>
<td>0.174</td>
</tr>
<tr>
<td>F/G ratio</td>
<td>Adequate</td>
<td>0.659</td>
<td>0.846</td>
<td>0.187</td>
</tr>
<tr>
<td></td>
<td>Limited</td>
<td>2.232</td>
<td>1.984</td>
<td>-0.248</td>
</tr>
<tr>
<td></td>
<td>Adequate</td>
<td>2.119</td>
<td>1.873</td>
<td>-0.246</td>
</tr>
<tr>
<td>ADFI (lb/day)</td>
<td>Limited</td>
<td>1.350</td>
<td>1.531</td>
<td>0.181</td>
</tr>
<tr>
<td></td>
<td>Adequate</td>
<td>1.403</td>
<td>1.586</td>
<td>0.183</td>
</tr>
</tbody>
</table>

*Mecadox* effect significant at P<.05.


**SUMMARY**

After 28 days, the crowded pigs (allowed only 1.4 sq ft/pig) fed *Mecadox* were approximately 5.0 lb heavier and had a 10% better feed conversion than non-medicated pigs. With pigs allowed ample floor space (2.7 sq ft/pig), *Mecadox* use resulted in similar performance improvements.

The results of this study show that *Mecadox* is vital to maintaining performance during the late nursery period when average daily gain (ADG) is greater and feeder and pig space is limited. This is especially important when you consider that the accelerated lean growth that takes place in the nursery cannot be recovered later in life.
Extended Feeding of Mecadox pays.

A 42-day withdrawal allows Mecadox to be used as a growth management tool beyond the nursery. Wean-to-finish research concludes pigs fed Mecadox step-down diets, all the way to 180 lb*, showed substantial improvement in growth rate and feed utilization versus non-medicated pigs.

Mecadox Benefits in Wean-To-Finish Buildings

<table>
<thead>
<tr>
<th>Day 0 to 128</th>
<th>Non-Medicated</th>
<th>Mecadox, 50/25/10a</th>
<th>Unit changeb</th>
<th>Mecadox, 50/50/25a</th>
<th>Unit changeb</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADG (lb/day)</td>
<td>1.278</td>
<td>1.335</td>
<td>+ 0.057</td>
<td>1.357</td>
<td>+ 0.079</td>
</tr>
<tr>
<td>F/G ratio</td>
<td>2.285</td>
<td>2.272</td>
<td>- 0.013</td>
<td>2.236</td>
<td>- 0.049</td>
</tr>
</tbody>
</table>

*aDietary Mecadox level in g/ton

*bMecadox treatment versus non-medicated; differences in ADG and F/G were statistically significant (P<.05).

*Mecadox must be withdrawn from rations 42 days before slaughter

Comparison of Mecadox vs. Tylan in Step-Down Feeding Programs from Weaning to Market.

SUMMARY

Bottom line, Mecadox can help you market more pork. Pigs were 7.3 lb heavier on the Mecadox 50/25/10 program and 10.1 lb heavier on the Mecadox 50/50/25 program.

Improve performance in pigs with high lean growth potential.

Most pigs have a high genetic capacity for lean growth. Mecadox is an effective growth-enhancing agent, which can help improve the growth of your high lean gain pigs. Improved feed efficiency allows pigs to make more efficient use of some of the most costly components of their diet - amino acid sources like soybean meal and synthetic lysine and threonine. Using Mecadox helps pigs make better use of nutrients resulting in faster gains and better feed conversion.
Researchers at Iowa State University found Mecadox provided significant improvement (F/G & ADG) in pigs with high genetic capacity for lean issue growth.

Growth Response to Mecadox in Pigs with a High Genetic Capacity for Lean Tissue Growth

<table>
<thead>
<tr>
<th>Item</th>
<th>Genetic Capacity</th>
<th>Mecadox, g/ton&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Unit change</th>
<th>13 to 75 lb BW</th>
<th>0</th>
<th>50</th>
<th>+ 0.18</th>
<th>+ 0.03</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADG, lb&lt;sup&gt;b&lt;/sup&gt;</td>
<td>High</td>
<td>1.16</td>
<td>1.34</td>
<td>1.23</td>
<td></td>
<td>1.26</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>1.98</td>
<td>1.69</td>
<td>1.77</td>
<td>+ 0.09</td>
<td>- 0.01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F/G ratio&lt;sup&gt;c&lt;/sup&gt;</td>
<td>High</td>
<td>1.85</td>
<td>1.69</td>
<td>1.61</td>
<td>+ 0.18</td>
<td>- 0.06</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>1.98</td>
<td>1.92</td>
<td>1.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADG, lb&lt;sup&gt;d&lt;/sup&gt;</td>
<td>High</td>
<td>1.68</td>
<td>1.77</td>
<td>1.61</td>
<td>+ 0.09</td>
<td>- 0.01</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>1.98</td>
<td>1.6</td>
<td>1.77</td>
<td>+ 0.18</td>
<td>- 0.06</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F/G ratio&lt;sup&gt;e&lt;/sup&gt;</td>
<td>High</td>
<td>2.92</td>
<td>2.78</td>
<td>2.78</td>
<td>- 0.14</td>
<td>+ 0.02</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>3.16</td>
<td>3.18</td>
<td>3.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tenth rib, in&lt;sup&gt;f&lt;/sup&gt;</td>
<td>High</td>
<td>1.08</td>
<td>0.96</td>
<td>1.42</td>
<td>- 0.12</td>
<td>+ 0.14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Backfat)</td>
<td>Low</td>
<td>1.42</td>
<td>1.56</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loin eye, in&lt;sup&gt;f&lt;/sup&gt;</td>
<td>High</td>
<td>5.19</td>
<td>5.70</td>
<td>4.63</td>
<td>+ 0.51</td>
<td>- 0.26</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>4.63</td>
<td>4.37</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Muscle, (%)&lt;sup&gt;g&lt;/sup&gt;</td>
<td>High</td>
<td>54.4</td>
<td>56.2</td>
<td>45.9</td>
<td>+ 1.8</td>
<td>- 0.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>45.9</td>
<td>45.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fat, (%)&lt;sup&gt;h&lt;/sup&gt;</td>
<td>High</td>
<td>29.1</td>
<td>27</td>
<td>37.1</td>
<td>- 2.1</td>
<td>+ 1.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>37.1</td>
<td>38.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<sup>a</sup> Mecadox fed from 13 to 75 lb. body weight  
<sup>b</sup> Genotype x Mecadox effect, (P<.01)  
<sup>c</sup> Genotype x Mecadox effect, (P <.13)  
<sup>d</sup> Genotype x Mecadox effect at 250 lb significant (P<.16)  
<sup>e</sup> Genotype x Mecadox effect at 250 lb significant (P<.09)


**SUMMARY**

High lean gain pigs fed Mecadox to 75 lb reached market weight (250 lb) in 7.2 fewer days, required 33.2 lb less feed and had an absolute improvement in carcass muscle content of 1.8%. The economic implications are less feed use per pig and fewer days to market.
**SUMMARY**

In this trial, *Mecadox* was fed from 12 to 75 lb at 0 or 50 g per ton. All pigs were fed the same non-medicated ration from 75 to 250 lb bodyweight. At slaughter, the pigs possessed positive titers for *Actinobacillus pleuropneumoniae*, *Mycoplasma hyopneumonia* as well as porcine reproductive and respiratory syndrome (PRRS). *Mecadox* fed to 75 lb bodyweight improved rate, efficiency and composition of growth (reduced fat % and increased muscle %) when measured at 250 lb bodyweight.
Effective Enteric Disease Control

Enteric diseases pose costly threats to the swine industry through poor growth, death loss and medication expense. *Mecadox* in pig diets offers effective control of enteric pathogens including *Salmonella choleraesius*, a cause of salmonellosis, and *Brachyspira hyodysenteriae*, a cause of swine dysentery. The following studies show how *Mecadox* maintains growth in pigs facing enteric disease challenges.

### Enteric Challenge Study\(^1\)

<table>
<thead>
<tr>
<th>Mecadox, g/ton</th>
<th>Day 0 to 21</th>
<th>Unit change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>50</td>
</tr>
<tr>
<td>ADG (lb/day)(^a)</td>
<td>0.814</td>
<td>1.10</td>
</tr>
<tr>
<td>F/G ratio</td>
<td>2.97</td>
<td>2.60</td>
</tr>
<tr>
<td>ADFI (lb)(^a)</td>
<td>2.42</td>
<td>2.86</td>
</tr>
</tbody>
</table>

### Salmonella Challenge Study\(^2\)

<table>
<thead>
<tr>
<th>Mecadox, g/ton</th>
<th>Day 0 to 21</th>
<th>Unit change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>50</td>
</tr>
<tr>
<td>ADG (lb/day)</td>
<td>0.534</td>
<td>0.723</td>
</tr>
<tr>
<td>F/G ratio</td>
<td>3.20</td>
<td>2.85</td>
</tr>
</tbody>
</table>

\(^a\) *Mecadox* effect significant at (P<.05).


**SUMMARY**

While *Mecadox* is not labeled for treatment of ileitis, pigs challenged with ileitis and fed rations including *Mecadox* were 9.7 lb heavier and had 11% better feed conversion than non-medicated pigs. This study provides strong support that *Mecadox* improves growth performance in pigs challenged with ileitis.

In the presence of clinical salmonellosis, pigs fed diets including *Mecadox* averaged 7.9 lb more gain on 10.9% less feed per pound of gain throughout the study period. Morbidity and mortality rates caused by bacterial enteritis (*Salmonella choleraesuis*) were also significantly reduced with *Mecadox* use.
Example *Mecadox* Programs for Respiratory and Enteric Disease Control and Growth Enhancement

### Nursery Diets

<table>
<thead>
<tr>
<th>Ration</th>
<th>Ration 2</th>
<th>Ration 3</th>
<th>Ration 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mecadox 50 g/ton</td>
<td>Mecadox 25 g/ton and Terramycin® 10 mg/lb body weight for 7 to 14 days</td>
<td>Mecadox 50 g/ton</td>
<td>Mecadox 50 g/ton</td>
</tr>
</tbody>
</table>

### Grow/Finish Diets

<table>
<thead>
<tr>
<th>Ration 1</th>
<th>Ration 2</th>
<th>Ration 3</th>
<th>Ration 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mecadox 25 g/ton and Terramycin® 10 mg/lb body weight for 7 to 14 days</td>
<td>Mecadox 25 g/ton</td>
<td>Terramycin® 10 mg/lb body weight for 7 to 14 days</td>
<td>Mecadox 25 or 10 g/ton</td>
</tr>
</tbody>
</table>

Cost-effective control of respiratory and enteric diseases while providing growth enhancement.

1. Additional 7 to 14-day pulse dosing of Terramycin® can be used in herds encountering severe respiratory challenges anytime to market weight. PRRS positive pigs challenged with secondary respiratory infections should be pulsed 2 to 3 times.

2. Feed *Mecadox* up to 180 lb bodyweight (withdraw 42 days prior to slaughter)

### Animal Drug Dosage Level and Indications

#### Swine

<table>
<thead>
<tr>
<th>Drug</th>
<th>Dosage Level</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Mecadox</em> (carbadox)</td>
<td>10 - 25 g/ton (0.0011 - 0.00275%)</td>
<td>For increased rate of weight gain and improvement of feed efficiency.</td>
</tr>
<tr>
<td><em>Mecadox</em> (carbadox)</td>
<td>50 g/ton (0.0055%)</td>
<td>For control of swine dysentery (vibrionic dysentery, bloody scours or hemorrhagic dysentery); control of bacterial swine enteritis (salmonellosis or necrotic enteritis caused by <em>Salmonella choleraesuis</em>); for increased rate of weight gain and improvement of feed efficiency.</td>
</tr>
</tbody>
</table>

FDA Status: Feed mill license required if the source of carbadox contains more than 2.5 g/lb. (0.55%). Regulation §558.115

WARNING STATEMENT REQUIRED: Do not feed to swine within 42 days before slaughter.

CAUTION: Do not use in feeds containing bentonite. Not for use in pregnant swine or swine intended for breeding purposes.

#### Swine

<table>
<thead>
<tr>
<th>Drug</th>
<th>Dosage Level</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Mecadox</em> (carbadox) and Terramycin® (oxytetracycline)</td>
<td>10 - 25 g/ton and 10 mg/lb bodyweight</td>
<td>For treatment of bacterial enteritis caused by <em>Escherichia coli</em> and <em>Salmonella choleraesuis</em> susceptible to oxytetracycline. For treatment of bacterial pneumonia caused by <em>Pasteurella multocida</em> susceptible to oxytetracycline. For increased rate of weight gain and improved feed efficiency.</td>
</tr>
</tbody>
</table>

FDA Status: Feed mill license required if the source of carbadox contains more than 2.5 g/lb. (0.55%). Regulation §558.115

WARNING STATEMENT REQUIRED: Do not feed to swine within 42 days before slaughter. Not for use in pregnant swine or swine intended for breeding purposes.

LIMITATIONS FOR USE: Feed continuously for 7 to 14 days.

Talk to your veterinarian or animal health supplier today to discover the cost-effective advantages of adding *Mecadox* to your pig diets.
Discover The Mecadox Advantage

- Improved pig performance in a wide range of health and growing conditions
  - Presence of enteric disease challenges
  - High-health or low-health status
  - SEW or conventional nursery management
  - Crowded or adequate floor space
  - High-lean genetic potential
  - Wean-to-finish buildings
  - New or used facilities
- Effective control of enteric pathogens
- Promotes growth while it fights disease
- Can be used in nursery, grower and early finisher diets
- Multiple approved dosages and combinations