

# AMBITINE®

FEED ADDITIVE

## PACKAGING AND CODES

Bags, net weight 50 pounds  
Codes: Nutra Blend A20153A0

Available from:  
Nutra Blend, LLC,  
Neosho, MO 64850  
800-657-5657

Nutra Blend West,  
Madera, CA 93637 / 503-982-9545  
Hubbard, OR 97032 / 559-661-6161

Nutra Blend East,  
North Troy, VT 05859  
800-945-4474

PMI develops innovative combinations of animal feed additives that optimize performance in poultry, swine, dairy and beef cattle by supporting nutrient utilization and gut health. Working with feed nutritionists, manufacturers, veterinarians and producers, PMI products harness the interactions between feed additives to deliver value, efficacy and strong results. Through a comprehensive innovation approach, across component verticals, species, and geographies, PMI leverages the most advanced ingredients and technologies to develop products that perform.

**PMI**  
Performance Minded.™

PMI  
4001 Lexington Ave N  
Arden Hills, MN 55126

[www.pmiadditives.com](http://www.pmiadditives.com)

▲ Specifically designed for late finishing pigs (from ~200 lbs. to market)

▲ Supports immuno-competence and gut integrity

▲ Optimizes performance in the last weeks before market

The late finishing period in swine production can be a critical time for certain stressors to become apparent, such as increased intake and feeder competition. The heavier weights (290-300 lbs.) before market can also drive heat stress and other potential challenges (exacerbated by required antibiotic withdrawal).

Nutritional programs are designed to optimize animal performance and production efficiency. Inclusion of functional ingredients, such as plant extracts, are often directed at supporting optimal gut integrity. Strategies that combine these tools are frequently needed to ensure success. High gut integrity results in optimized endogenous secretions which supports digestion and nutrient absorption. High gut integrity also requires less energy expenditure for maintenance; more nutrients are available for production parameters.

Ambitine® Feed Additive (Ambitine® FA) consists of a proprietary and carefully researched blend of key plant extracts and acidifiers. These are functional nutrients that optimize immuno-competence and gut integrity supporting optimal swine finisher performance.

Multiple trials have demonstrated the capability of Ambitine® FA to support performance, in research facilities, controlled commercial settings, and in field trials; many of these trials have been presented and published (see next page).

Ambitine® FA has demonstrated excellent ROI potential and is easy to use with no additional reformulation needed.

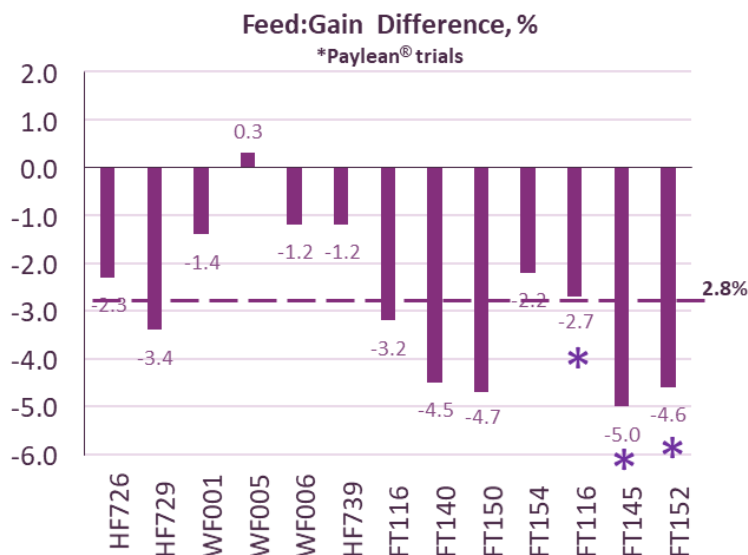
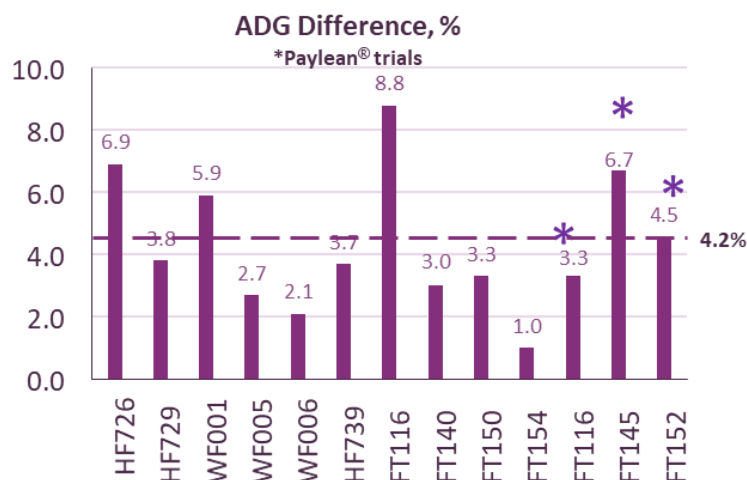
## RECOMMENDED INCLUSION LEVEL

### Finishing Swine

Mix at the rate of two (2) pounds per ton of complete feed for finishing hogs (from 200-220 lbs. to market).

# TRIALS WITH AMBITINE® FEED ADDITIVE

In the following 13 trials, finisher pigs fed Ambitine® FA, after 200 lbs. of body weight to market, had a significant or numerical difference in their performance compared with the performance of the pigs fed diets without Ambitine® FA.



¥ Relative difference to the control within the individual trial.

Many trials have demonstrated the capability of Ambitine® FA to support performance, several of which have been presented and published:

#### Ambitine® Feed Technology: A Late Finishing Intervention for Pork Production

D. McManus,<sup>1</sup> DVM; M. Lachmann,<sup>1</sup> Ph.D.; B. de Rodas,<sup>1</sup> Ph.D.; T. Weeden<sup>1</sup> Ph.D.; S. Crowder,<sup>1</sup> M.S.; S. Petersen,<sup>2</sup> Ph.D. <sup>1</sup>Purina Animal Nutrition LLC, <sup>2</sup> PMI Nutritional Additives. Proceedings from the 47th American Association of Swine Veterinarians Annual Meeting, New Orleans, Louisiana. February 27-March 1, 2016. Sunday Concurrent Session #2: Industrial Partners, Page 111- 113.

#### The Effect of Feeding a Phytogenic (Ambitine® FT) With and Without Added Copper on Late Finishing Pig Performance.

Crowder<sup>1</sup>, T. L. Weeden<sup>1</sup>, M. B. Lachmann Sevilla<sup>1</sup>, B. De Rodas<sup>1</sup>, T. P. Karnezos<sup>2</sup>, <sup>1</sup>Purina Animal Nutrition LLC, Shoreview, MN, <sup>2</sup>PMI Nutritional Additives, Shoreview, MN. ASAS Midwestern Section and ADSA® Midwest Branch Meeting, Des Moines, Iowa. March 14-16, 2016. Non-ruminant Nutrition Session, Paper 160, Page 73.

#### The Effect of Feeding Ambitine® FA on Growth Performance and Carcass Characteristics of Finishing Pigs.

R.L. Schmitt<sup>1</sup>, M. Ellis<sup>1</sup>, J. E. Estrada<sup>1</sup>, A. M. Gaines<sup>2</sup>, O. F. Mendoza<sup>2</sup>, C. M. Shull<sup>2</sup>, S. A. Crowder<sup>3</sup> and T. P. Karnezos<sup>4</sup>. <sup>1</sup>University of Illinois, Urbana-Champaign, <sup>2</sup>The Maschhoffs, LLC, Carlyle, IL, <sup>3</sup>Purina Animal Nutrition LLC., Shoreview, MN, <sup>4</sup>PMI Nutritional Additives, Shoreview, MN. ASAS Midwestern Section and ADSA® Midwest Branch Meeting Omaha, Nebraska. March 13- 15, 2017. Non-ruminant Nutrition V: Feed Additives II Session. Paper 177.

#### The Effect of Feeding Ambitine® FA on Late Finishing Pig Performance.

S.A. Crowder<sup>1</sup>, T. L. Weeden<sup>1</sup>, M. B. Lachmann Sevilla<sup>1</sup>, B. De Rodas<sup>1</sup>, and T. P. Karnezos<sup>4</sup>. <sup>1</sup>Purina Animal Nutrition LLC., Shoreview, MN, <sup>2</sup>PMI Nutritional Additives, Shoreview, MN. ASAS® Midwestern Section and ADSA® Midwest Branch Meeting, Omaha, Nebraska. March 13-15, 2017. Non-ruminant Nutrition VII: Feed Additives/Ingredients Session. Paper 292.

#### Effects of OutPace® and Ambitine® Feed Additives on the Performance of Wean-to-Finish Pigs.

C. V. Cooper, S. D. Carter, P. Aparachita, and I. Silva Lara, Oklahoma State University, Stillwater; Journal of Animal Science, Volume 96, Issue suppl\_2, 10 April 2018, Pages 185, ASAS Midwestern Section and ADSA® Midwest Branch Meeting. March 12-14, 2017, Omaha, Nebraska. Non-ruminant Nutrition VI: Feed Additives II, Paper 343.

#### Evaluation of feeding Ambitine® Feed Additive with and without narasin on finishing pig performance.

Bass, Benjamin<sup>1</sup>; Crowder, Stacie<sup>2</sup>; Weeden, Terry<sup>2</sup>; Karnezos, Peter<sup>1</sup>; DeRodas, Brenda<sup>2</sup>, <sup>1</sup>PMI, Arden Hills, MN; <sup>2</sup>Purina Animal Nutrition, Gray Summit, MO, 2018 Allen D. Lemman Swine Conference, Feed/Nutrition Abstract 18

#### The effect of feeding Ambitine® Feed Additive on Late Finishing Pig Performance.

S.A. Crowder<sup>1</sup>\*, T.L. Weeden<sup>1</sup>, B. Bass<sup>2</sup>, B. de Rodas<sup>1</sup>, T.P. Karnezos<sup>2</sup>; <sup>1</sup>Purina Animal Nutrition LLC, Shoreview, MN, USA, <sup>2</sup>PMI, Arden Hills, MN, ASAS Mid Section and ADSA® Midwest Branch Meeting Omaha, Nebraska. March 11- 13, 2019. Non-ruminant Nutrition Session.



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