

# OUTPACE®

FEED ADDITIVE

## PACKAGING AND CODES

Bags, net weight 50 pounds  
Code: Nutra Blend A20258C0

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.

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- ▲ Specifically designed for late nursery-grower pigs
- ▲ Includes key functional components such as patented MCFA
- ▲ Supports immuno-competence and gut integrity
- ▲ Optimizes performance during common periods of stress such as diet change, movement, or other wellness challenges

The late nursery-grower period in swine production can be a critical time for certain stressors to become apparent. Early dietary changes, movement, or transport from nursery barns to grower-finish units, seasonal temperatures changes and other potential wellness challenges can have a negative impact on swine performance.

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

OutPace® Feed Additive (OutPace® FA) consists of a proprietary and carefully researched blend of key extracts, including patented and activated medium-chain fatty acids, and acidifiers. These are functional components that support immunocompetence and gut integrity for optimal late nursery-grower pig performance.

Multiple trials have demonstrated the capability of OutPace® 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).

## RECOMMENDED INCLUSION LEVEL

### Late Nursery – Grower Swine

Mix at the rate of 2-10 pounds per ton of finished feed for late nursery-grower pigs.

- 2 lb./ton for normal conditions
- Up to 10 lb./ton for beyond maintenance (e.g. challenging conditions or non-antibiotic production)

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# SWINE TRIALS WITH OUTPACE® FEED ADDITIVE

In the following sponsored trials (during 2014 and 2015), pigs fed OutPace® FA, had a significant, or numerical, difference in their performance compared with the performance of the pigs fed diets without OutPace® FA.

Trial	Trial Code	Pigs /trt	Trial Start Wt. (lbs.)	OutPace® Fed Start Wt. (lbs.)	Days Fed	Weight Gain Advantage over Control (lbs.)	ADG Change %	Feed/Gain Advantage (points)	Feed/Gain Advantage (%)	P Value		
										Gain	ADG	FE
1	FT140N	220	11	26	15	.86	5.4	5.4	3.7		a	a
2	FT142N	189	13	30	20	1.2	2.2	3.6	2.5			
3	FT40FA	220	57	57	43	0.07	0	2.2	1.12			
4	HF739	84	94	94	14	0.8	6.45	6	2.8	a	a	
5a	SD2015 Field Trial	744	14	45	From 45-65 lb. ~22 days	1.1	1.9	9.2	5.4			
5b	SD2015 Field Trial	8	65	65	From 65-90 lb. ~30 days	2.5	4	Feed Intake not measured	Feed Intake not measured			
<b>Weighted AVG:</b>		<b>244</b>	<b>24.7</b>	<b>44.9</b>	<b>23.4</b>	<b>0.9</b>	<b>2.5</b>	<b>6.6</b>	<b>3.9</b>			

<sup>a</sup>For the parameter indicated: Means differed significantly within trial P < 0.05

## EARLY GROWER TRIAL

A grower trial was conducted in a controlled commercial research setting in Iowa. Pigs were transported from the nursery unit to the grow-finish barn where they were randomly assigned to 12 pens per each treatment (7 pigs/pen). The Control group received a non-medicated diet. The Treatment group had OutPace® FA added to the non-medicated diet at a rate of 2 lb. per ton. The diets were fed for 14 days and then performance measurements were taken. Results were as follows:

	No. Pigs	Start Weight, lbs.	End Weight, lbs.	ADG, lbs.	Avg. Daily Feed Intake, lbs.	Feed/Gain
Control	84	93.4	118.96	1.86a	4.01	2.16
OutPace® FA	84	94.3	120.64	1.98b	4.14	2.10
<b>Difference</b>			<b>0.8</b>	<b>+6.4%</b>		<b>-2.8%</b>

<sup>a,b</sup>Values with different superscripts within columns are different (P<0.05) Trial

Ref: HF739. Conducted in 2015, sponsored by PMI Nutritional Additives

## PUBLISHED DATA

The following is a quote from published data presented at AASV 2017, titled:

### The Effect of Feeding MCFA on Performance of Nursery Pigs Raised Without Antibiotics.

D. McManus,<sup>1</sup> DVM; M. Lachmann,<sup>1</sup> Ph.D.; T. Weeden,<sup>1</sup> Ph.D.; B. de Rodas,<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 48th American Association of Swine Veterinarians Annual Meeting, February 25-28, 2017, Denver, Colorado. Sunday Concurrent Session #2: Industrial Partners, page 109-112.

Within the trial conducted and presented, “the best performance was obtained when pigs were fed diets containing 2.5 lbs/ton of OutPace® FA with antibiotics (AB). These pigs were 1.98 lbs. heavier (p=0.09) when compared to pigs raised with AB and not fed OutPace® FA. Additionally, this group of pigs used 0.08 lbs. less feed (p<0.01) per each pound of body weight gain when compared to the control pigs (7.8 points). These results indicate that the most efficient level of OutPace® FA is 2.5 lbs./ton of feed in combination with AB to optimize pig performance.”



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