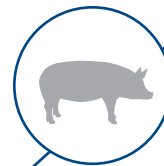


Research Notes

Arm & Hammer Animal and Food Production



CERTILLUS Improves Feed Efficiency in Grow-Finish Pigs

CERTILLUS™ Targeted Microbial Solutions™ use proprietary strains of *Bacillus* selected to combat specific pathogenic challenges.

STUDY OVERVIEW

- This study¹ was conducted on a commercial swine facility in Minnesota to evaluate the effects of CERTILLUS fed during the early part of the grow-finish phase of production. The study included 600 pigs, housed 25 pigs per pen.
- Pigs were fed either a control basal diet or the control diet supplemented with CERTILLUS (2×10^5 CFU/g feed). They were fed treatment diets beginning in the grower phase (~40 lbs.) until they reached approximately 170 lbs. in the early finisher phase.
- Body weight (BW) gain and feed intake were monitored to determine ADG, ADFI and feed conversion (F:G).

RESULTS

- Pigs fed CERTILLUS during the early part of the grow-finish period had greater ($P < 0.01$) ADG and F:G in Phase 5 compared to pigs fed the control diet.
- At the end of the trial period (Phase 5), pigs fed CERTILLUS were 2.4 lbs. heavier than pigs fed the control diet.

TABLE 1. GROWTH PERFORMANCE OF PIGS FED CERTILLUS SWINE DURING THE EARLY GROW-FINISH PHASE OF PRODUCTION.

	CONTROL	CERTILLUS	DIFF	SE	P=
Phase 1, 14 days (~40-60 lbs.)					
ADG, lb	1.49	1.52	2.0%	0.02	0.21
ADFI, lb	1.95	2.01	3.1%	0.04	0.15
F:G	1.31	1.32	0.7%	0.02	0.75
BW, lb (end Ph1)	60.4	60.7	0.5%	0.30	0.33
Phase 5, 20 days (~130-170 lbs.)					
ADG, lb	1.88	1.99	6.0%	0.03	<0.01
ADFI, lb	4.65	4.57	-1.7%	0.06	0.56
F:G	2.49	2.29	-8%	0.04	<0.01
BW, lb (end Ph 5)	167.1	169.5	1.4%	1.1	0.20

CONCLUSION

- Growing-finishing pigs fed CERTILLUS experienced improved feed efficiency and reached final body weight faster than unsupplemented pigs.



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¹ Sinn S, Beckler D. Evaluation of feeding multiple DFM test products to grow-finish pigs on growth performance without antibiotics. 2017. NutriQuest Modeling Center.

