

Availa®Cu Provides Additive Effect on Nursey Pig Growth Performance



Study Objective

Four studies were conducted to determine the additive effects of CuSO₄ or Availa®Cu and ZnO on the performance of newly weaned pigs.



Animals

2312 mixed-sex weaned pigs

Treatments

Study 1 and 2^{ab}:

- CON: No added Zn or Cu
- AvCu: No added Zn + Availa-Cu
- ZnO: ZnO + no added Cu
- ZnO + AvCu: ZnO + Availa-Cu

Study 3^{abc}:

- CON: No added Zn or Cu
- CuSO₄: No added Zn + CuSO₄
- AvCu: No added Zn + Availa-Cu
- ZnO: ZnO + no added Cu
- ZnO + CuSO₄: ZnO + CuSO₄
- ZnO + AvCu: ZnO + Availa-Cu

Study 4^{abd}:

- ZnO: ZnO + no added Cu
- ZnO + CuSO₄: ZnO + CuSO₄
- ZnO + AvCu: ZnO + Availa-Cu



Study Duration

Diets were fed for 4 or 6 weeks



Location

University of Illinois,
Champaign, IL, USA
Louisiana State University,
Baton Rouge, LA, USA

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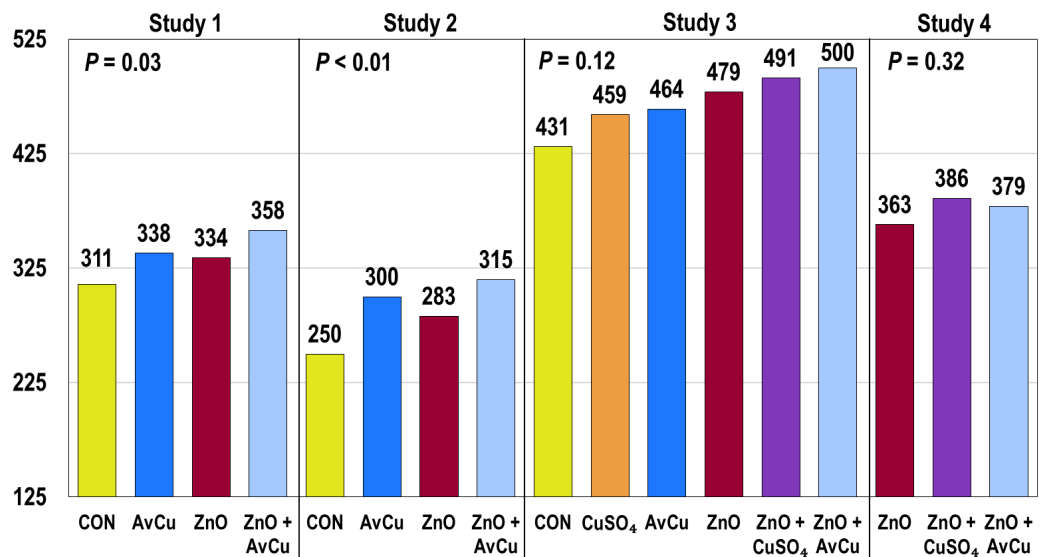


Results Summary

In four nursery pig studies, Availa-Cu:

- Study 1 and 2: overall additive effect on ADG and ADFI
- Study 3: improved ADG and ADFI overall
- Study 4: overall increased ADFI

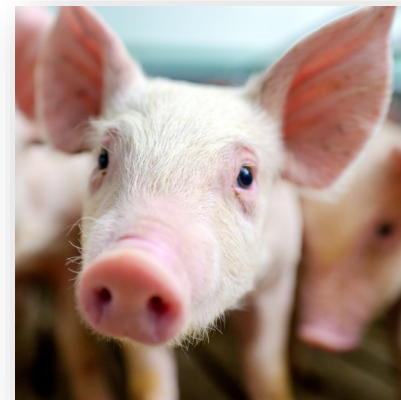
Availa-Cu Positively Influences ADG, g



Availa-Cu has a Positive ROI

Item	Average ROI
ZnO + AvCu vs. ZnO	9:1
AvCu vs. CuSO ₄	15:1
ZnO + AvCu vs. ZnO + CuSO ₄	12:1

^a3000 ppm Zn from ZnO
^b100 ppm Cu from amino acid complex
^c250 ppm Cu from CuSO₄
^d315 ppm Cu from CuSO₄



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Perez, V. G., A. M. Waguespack, T. D. Bidner, L. L. Southern, T. M. Fakler, T. L. Ward, M. Steidinger, and J. E. Pettigrew. 2011. Additivity of effects from dietary copper and zinc on growth performance and fecal microbiota of pigs after weaning. J. Anim. Sci. 89:414-425.