

Research Notes P-80

Arm & Hammer Animal Nutrition



CEL-MAX evaluated in combination with and as a replacement for antibiotic growth promoters

CEL-MAX™ is a multicomponent, all-natural feed supplement containing Refined Functional Carbohydrates™ (RFC™) that has Generally Recognized as Safe (GRAS) status as a feed ingredient.

STUDY OVERVIEW

- The study evaluated and compared CEL-MAX SCP supplementation to antibiotic growth promoters (AGP) in commercial broiler operation.
- 288 male broiler chicks were randomly assigned to 24 floor litter pens with 12 chicks/pen, resulting in 8 replicate pens/treatment and fed one of three diets:
 - AGP (BMD®, Bacitracin 55 mg/kg)
 - CEL-MAX SCP (50 mg/kg) with AGP
 - CEL-MAX SCP (50 mg/kg)
- All diets contained coccidiostats.
- Body weight (BW) and feed intake were determined at placement, 7, 21 and 36 days. Mortality and BW were noted daily to calculate feed conversion ratio (FCR).

RESULTS

- There was no significant difference in BW, feed intake or FCR.
- Broilers supplemented with only CEL-MAX SCP finished with higher body weight compared to the two other groups.
- No synergy was observed when AGP and CEL-MAX SCP were used together.

CONCLUSION

The results support the application of CEL-MAX SCP as an alternative to AGP without affecting performance in commercial broiler operations.

FIGURE 1: Mean Body Weights by Day of Treatment

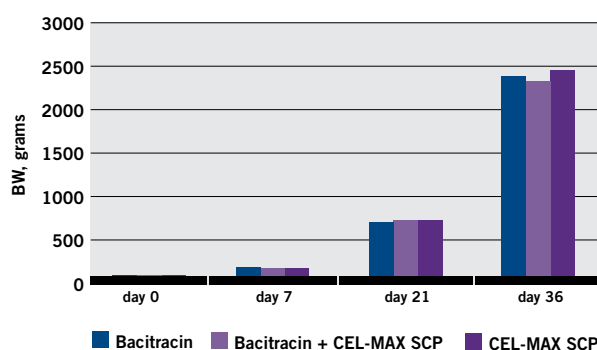
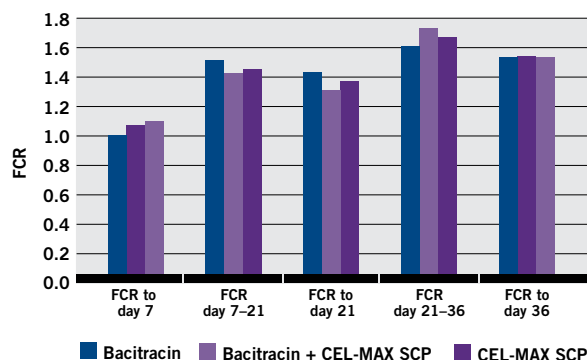


FIGURE 2: Feed Conversion Ratio (FCR) by Period and to Day of Treatment



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Jalukar S, Oppy J, Robinson D, Ritchie S. CEL-MAX SCP application in broiler diets: Synergism or alternative to antibiotic growth promoter effects. 2014; Abstract P-242. Presented at IPSF, Atlanta, Ga.



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