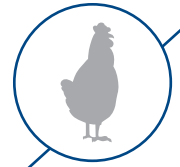


# Research Notes P-76

Arm & Hammer Animal Nutrition



## CEL-MAX improves broiler performance under standard coccidiosis management program

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.

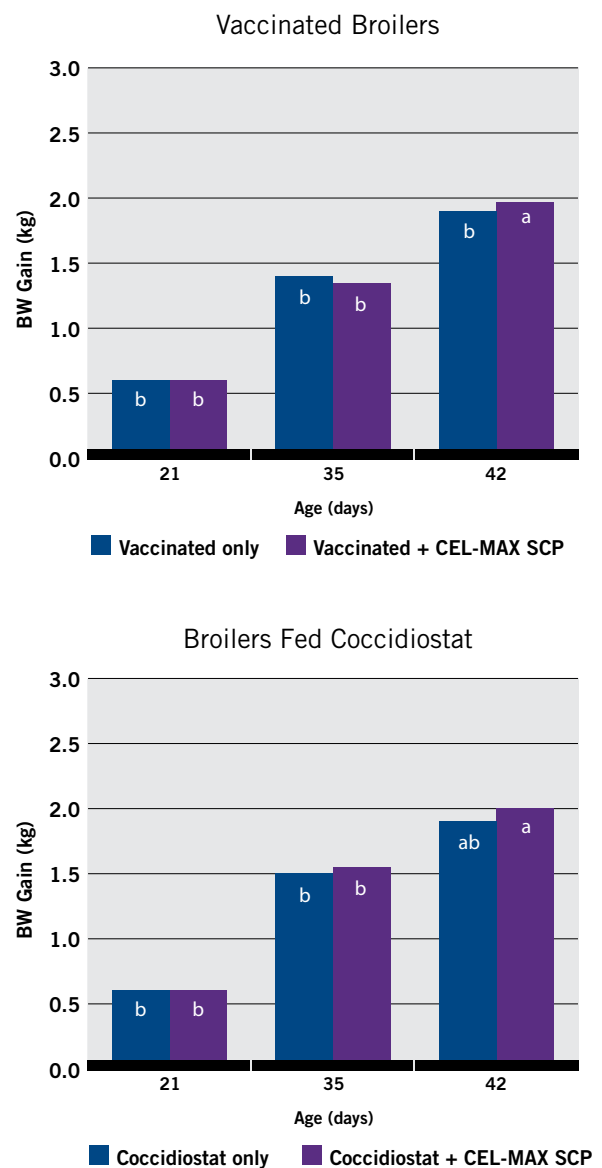
### STUDY OVERVIEW

- The purpose of the study was to determine the effect of CEL-MAX SCP on the performance of coccidiosis-vaccinated and coccidiostat-fed broilers.
- 1,600 day-old chicks were randomly assigned to one of four treatment groups:
  - **Group 1:** Vaccinated control
  - **Group 2:** Vaccinated + CEL-MAX SCP supplementation (200, 100 and 50 g/MT in starter, grower and finisher diets, respectively)
  - **Group 3:** Coccidiostat control (Salinomycin at 40, 50 and 0 g/MT in starter, grower and finisher diets, respectively)
  - **Group 4:** Coccidiostat (Same as Group 3) plus CEL-MAX SCP supplementation (same concentration as Group 2)
- Body weights and feed intake were recorded by pen at the start of the study, Day 21 and Day 35 and mortality was recorded daily and used to calculate feed conversion ratio (FCR). Individual bird weights were recorded at the end of the trial, Day 42.

### RESULTS

- There were no significant differences in feed intake and mortality.
- CEL-MAX SCP significantly improved weight gain at 42 days in both Groups 2 and 4 compared to groups 1 and 3 respectively (Figure 1).

**FIGURE 1:** Effect of CEL-MAX SCP on Weight Gain



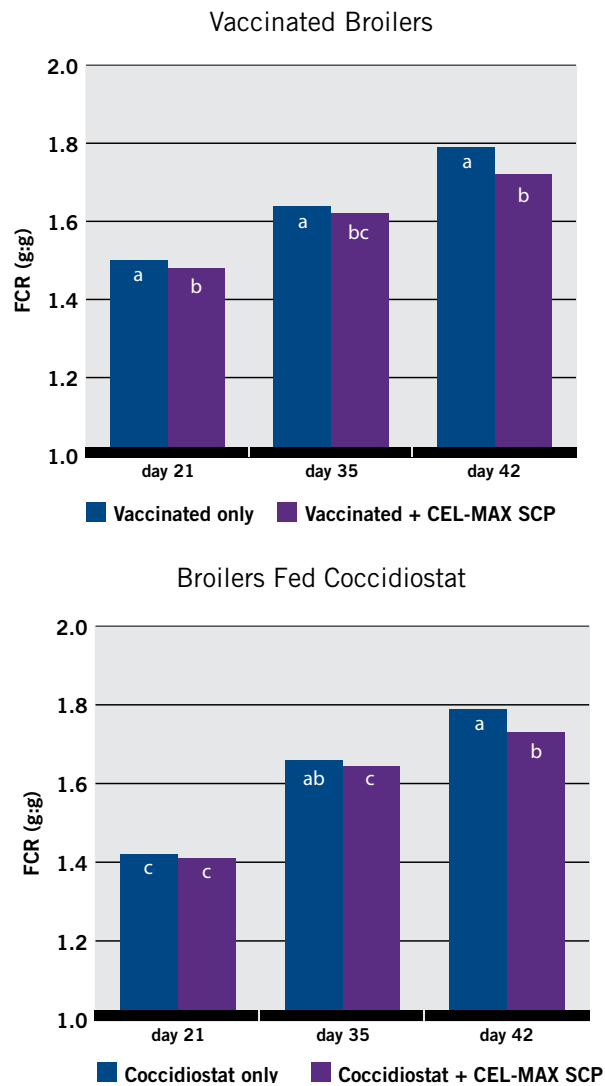
<sup>a,b</sup> Superscripts differing indicate significant difference ( $P < 0.05$ )

- The supplementation of CEL-MAX™ significantly improved feed conversion at all stages of growth compared to the control treatments (Figure 2).
- CEL-MAX supplementation also improved uniformity in bird size and weight resulting in lower standard deviation.

## CONCLUSION

- Supplementation of CEL-MAX in broiler diets effectively enhanced bird performance by improving weight gain, lowering feed conversion ratio and improving bird uniformity at slaughter under the current field practices for control of coccidiosis.

**FIGURE 2:** Effect of CEL-MAX SCP on Feed Conversion



**Animal Nutrition**



Mathis G, Lumpkins B, Jalukar S. Effect of CEL-MAX SCP feed supplementation on performance of broilers either fed an anticoccidial drug or vaccinated. 2011. Presented at IPSF in Atlanta, Ga.

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