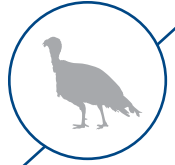


# Research Notes

Arm & Hammer Animal and Food Production



## CEL-MAX reduced cecal *Salmonella* levels in turkeys on commercial farms

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

- This study was designed to determine the effect of CEL-MAX on levels of *Salmonella* in ceca of turkeys on commercial farms.
- Baseline *Salmonella* enumeration (MPN/g) was determined for two turkey farms. Twenty-five ceca were sampled per farm.
- CEL-MAX SCP (50 g/MT) was fed from placement to processing to the next two or three flocks placed at each of the farms.
- At processing, 25 ceca were sampled from each flock for determination of *Salmonella* enumeration (MPN/g).

### RESULTS

- For turkey farm 1 (Figure 1), baseline *Salmonella* MPN/g was 9.07E+04, while the first sampled flock on CEL-MAX averaged 4.36E+00 and the second flock average was 1.17E+01.
- For turkey farm 2 (Figure 2), baseline and the first and third sampled flocks on CEL-MAX were at non-detectable levels of *Salmonella*. In the second sampled flock on CEL-MAX, *Salmonella* was detected in one (1.74E+00 MPN/g) of the 25 turkeys.<sup>1</sup>

### CONCLUSION

Inclusion of CEL-MAX in turkey diets throughout the production cycle may reduce or maintain low levels of *Salmonella* in ceca.

FIGURE 1: CECAL *SALMONELLA* (MPN/G), TURKEY FARM 1

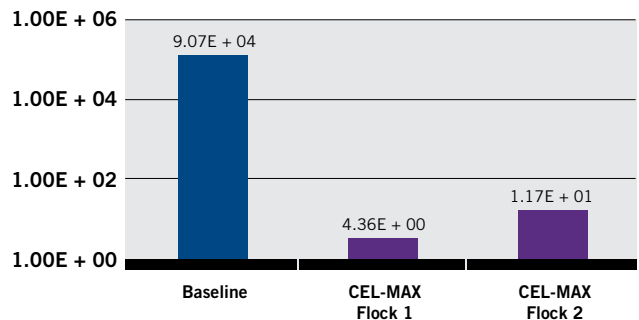
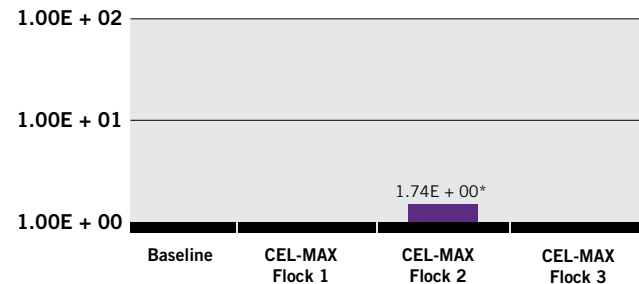


FIGURE 2: CECAL *SALMONELLA* (MPN/G), TURKEY FARM 2



Baseline, Flock 1 and Flock 3 were at non-detectable levels of *Salmonella*.  
\*In Flock 2, one bird out of the 25 sampled had a detectable level of *Salmonella*.



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<sup>1</sup> Data on file, ARM & HAMMER, 2019.

