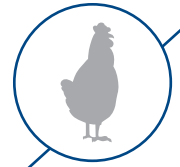


Research Notes P-27

Arm & Hammer Animal Nutrition



CELMANAX study shows improved weight gain, production index in broilers

CELMANAX™ 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 show the effects of CELMANAX on performance in broiler diets.
- 1400 broiler chicks were randomly assigned to one of three treatments:
 - Control diet including antibiotics but no CELMANAX
 - Control diet plus CELMANAX fed at rate of 1 kg/MT, including antibiotics
 - Control diet plus CELMANAX fed at rate of 2 kg/MT, including antibiotics
- Diets were fed for 42 days. All pens were weighed weekly. Feed intake and mortality was monitored daily.

RESULTS

- No statistical differences were seen between treatment groups on Days 7, 14, 21 and 25.
- At the end of the trial (Day 42) both treatment groups had significantly higher weight gain compared to the control, as shown in Table 1.

TABLE 1 Results on Day 42			
Parameter	Control	CELMANAX 1 kg/MT	CELMANAX 2 kg/MT
Cumulative Feed Intake (grams)	4165.00	4192.00	4190.00
Cumulative Weight (grams)	2262.00 ^b	2296.00 ^a	2303.00 ^a
Feed/Gain	1.87	1.86	1.85
Mortality %	8.70	6.20	6.60

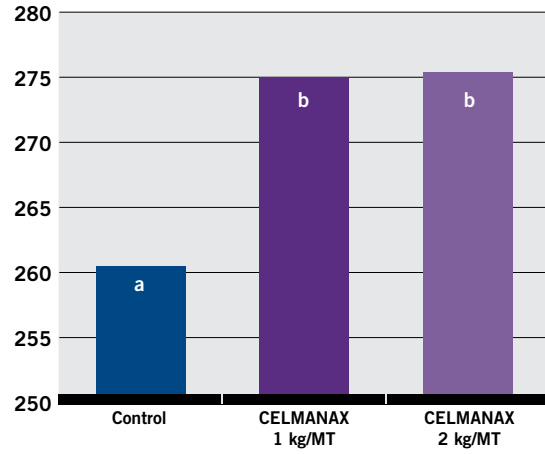
^{a,b} Superscripts differing indicate significant difference ($P < 0.05$)

- Birds receiving CELMANAX had a numerically lower mortality rate.
- Production index was significantly higher in both groups receiving CELMANAX when compared to the control.

CONCLUSION

CELMANAX™ provided a significant benefit to broilers, by significantly improving weight gain and production index.

FIGURE 1: Production Index



^{a,b} Superscripts differing indicate significant difference ($P < 0.05$)



Animal Nutrition



Adapted from the data of Dr. Jose Arce, Integracion Desarrollo Agropecuario Research Center in Charo-Morelia, Mexico

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