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Title: The effects of microbial phytases and dietary calcium and phosphorus levels on the productive performance and bone mineralization of broilers

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The effects of microbial phytases and dietary calcium and phosphorus levels on the productive performance and bone mineralization of broilers.

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Highlights High levels of phytase (1000 FTU/kg) supplemented in starter and growth diets may be required to promote performance and bone mineralization responses in growing broilers.

- Lowering Ca levels to 7 g/kg may exert greater effects on performance and ileal P digestibility than low levels of phytase.

Abstract.

Abbreviations

BW: Body weight; ADFI: Average daily feed intake; ADG: Average daily weight gain;

G: F: Gain, feed ratio; NC: negative control; PC: positive control.

Two trials were conducted to evaluate the effects of phytase and different levels of calcium (Ca) in an available phosphorus-limited diet (aP) on the performance, bone mineralization, and Ca and P retention of broilers. In Trial 1, 160 one-day-old male

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