**OPTIPHOS® OUTCOMPETES CIBENZA® PHYTAVERSE IN BROILERS**

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Background

Optiphos® and Cibenza® Phytaverse are two 6-phytases derived from different sources.

Objectives

Objective was to compare the effect of two phytases at two inclusion levels on animal performance.

Materials and methods

Broilers were randomly assigned to 2 treatment groups with 54 pens and 9 birds per pen. Broilers were fed a 3 phase diet (starter, grower and finisher). Feeds contained 0.9 %, 0.75 % and 0.65 % Ca and 0.45 %, 0.34% and 0.31 % P, respectively (Positive control; PC). The negative control feed (NC) was reduced by 0.15 % in Ca and P in all feeds replacing MCP and limestone. To the NC, either an *E. coli* derived 6-phytase (OptiPhos®) or a 6-phytase (Cibenza® Phytaverse) was added at levels of 500 and 1000 FTU/kg.

Results:

OptiPhos® at single dose gave a higher end weight than the NC (+71 g), whereas Cibenza® resulted in no improvement. Cibenza® at double dose increased end weight but did not reduce FCR compared to single dose. OptiPhos® at double dose did increase final weight vs the single dose (+37 g) and reduced FCR further by 0.05 below the PC. Assuming an equal inclusion cost of both phytases at both doses and a broiler price between 0.8 and 1.2 €/kg live weight, a net financial profit of OptiPhos® vs Cibenza® Phytaverse was calculated. This profit, calculated per 1000 broilers produced varied from 27 to 56 €.

Conclusions:

It can be concluded from this trial that OptiPhos® outperforms Cibenza® Phytaverse numerically on technical and economic performance both at single and double inclusion dose.