

EFFECTS OF SUBSTITUTING CORN MEAL IN THE DIETS WITH *Bacillus amyloliquefaciens* -FERMENTED BY-PRODUCTS OF TAPIOCA ON THE PERFOARMANCE OF BROILERS AND DUCKLYNGS

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ABSTRACT

An experiment was conducted to determine the effects of substitution of *Bacillus amyloliquefaciens*-fermented by-products of tapioca for some of corn meal in the diets on the performance of broilers and ducklyngs. 200 unsexed three day old broiler chicks and 200 male fourteen day old ducks were randomly allocated into 40 pens (teen chicks or duck/pen). This experiment was arranged in a completely randomized design with five dietary treatments (0, 10,20, 30 and 40% to broilers and 0, 30, 40, 50 and 60% to ducks of by products of tapioca in diets) and four replications. Masured variables were those of feed comsumption, average body weight gain, feed consumption and carcass percentage. Results of experiment indicated that feed consumption, average body weight gain, feed conversion and carcass percentage were not affected ($P>0.05$) by levels of *Bacillus amyloliquefaciens*-fermented by-products of tapioca in the diets to broiles but average body weight gain were affected ($P<0.05$) and feed conversion were highly affected ($P<0.01$) by levels of *Bacillus amyloliquefaciens*-fermented by-products of tapioca in the diets to ducklyngs. Meanwhile, all variables was not influenced ($P>0.05$) by these dietary treatments to broilers. Increasing levels of *Bacillus amyloliquefaciens* by products of tapioca up to 60% in diets, reduced feed conversion of ducklyng. In conclusion, *Bacillus amyloliquefaciens*-fermented by-products of tapioca can be included up to 40% in diets for broilers (88% for replacement of corn meal) and up to 60% in diets for ducklyngs (100% for replacement of corn meal).

Key words : Fermented by-products of tapioca, *Bacillus amyloliquefaciens*, corn meal, perfoamance, broiler, ducklyng