**EFFECT OF PROBIOTICS AND PREBIOTIC DERIVED FROM FERMENTED PALM KERNEL MEAL ON FECAL AMMONIA EMISSION AND PEFORMANCES OF QUAILS (*Coturnix-coturnix japonica*)**

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The objective of this experiment was conducted to study the effect of level of fermented palm kernel meal (FPKM) containning probiotic in the diets on fecal-ammonia emission and performances of of quail (*Coturnix-coturnix japonica*). One hundred sixty of three weeks of femal quails were assigned in twenty-floor pens in a curtain-side housed. The level of 0%,15%, 20% and 25% FPKM were applied in the diets of quails. Diets were isocaloric (3,000 kcal of ME/kg) and contained 20% crude protein (CP) during layer period, and were provided ad libitum together with water for the 6-wk trial. Ammonia emissions were measured using Kitagawa Pump AP-20. Then, for each treatment-replication, 50 gr of fecal material were collected from the house of quails and placed in 400 ml beakers and covered with plastic wraps. The ammonia concentration, pH, and moisture content of feces were measured after incubation for twenty four and forty eight hours. Experimental design used was Complete Randomized Design (CRD) consisting of four treatments with five replications.The results indicated that the level 25% of FPKM containing probiotic in the diet had no negative effect on quail day, interior and exterior quality of egg and very effective to reduce the fecal-ammonia emission for twenty four and fourty eight hour of measurement. The conclusion of the experiment the use of FPKM containning probiotic at level of up to 25% in the diets was no negative effect on the performances, egg quality and was very efective in reducing of fecal ammonia of quails.

**Key words**: Ammonia, Feces, Probiotics, Prebiotics, PKM, Quail