

Tropentag, September 15-17, 2021, hybrid conference

"Towards shifting paradigms in agriculture for a healthy and sustainable future"

Effects of Nucleotides Supplementation on the Productive Performance of Rabbit

Guilherme Carvalho Rocha¹, Paola Cristina. Piza¹, Andressa Santanna Natel², Ariane Flávia Nascimento¹, Lucas Alberto Teixeira de Rezende³, Eloi Portugal⁴

¹University José Do Rosário Vellano (UNIFENAS), Agronomy, Brazil

² University José Do Rosário Vellano (UNIFENAS), Agronomy, Brazil

³Federal Institute Sul de Minas Gerais, Veterinary Medicine, Brazil

⁴Federal Institute Sul de Minas, Veterinary Medicine, Brazil

Abstract

The ban of in feed-antibiotics in animal production has led to increasing interest in alternatives to overcome weaning-associated problems. Among others, dietary nucleotides are one group of bioactive agents which may have the potential to diminish challenges related to weaning, beside of exert positive effects on development animal. The objective of this study was to evaluate the effects of levels of nucleotides (NC) inclusion in diets to weaning rabbit on the productive performance. The experiment was developed at the Cuniculture Sector, Federal Institute of Education, Science and Technology of the South of Minas Gerais - Campus Muzambinho (CEUA - 5532061219). Thirty New Zealand White weaning rabbit with 30 day old and 0.575 kg (p = 0.32, SE = 0.117) were used, distributed in a randomised block design in four treatments according to the inclusion of nucleotides in the diet plus a witness: 0 (Control), 0.02%; 0.04%; 0.06% NC inclusion; and 0.004%commercial coccidiostat. Additives were included in the feed before pelleting. The rabbits were housed in individual cages and fed ad libitum during the 60-day experiment. NU supplementation did not affect the off total feed intake (6,51 kg, P=0.122, 37,7 % CV). A quadratic regression (p < 0.05) was observed for final weight (2.05, 1.73, 2.29 and 2.15), daily weight gain (23.96, 19.52, 27.28 and 26.42) and food convention (3.04, 6.06, 5.07 and (4.46), with the inclusion of NU in the diet (0, 0.02, 0.04 and 0.06%). There was no difference (p > 0.05) by contrast orthogonal between Coccidiostatic and NC supplementation treatments (0.02, 0.04 and 0.06) for analysed variables. NU supplementation at 0.04 level resulted in a improvement in performance rabbits. Coccidiostatic can been replaced by NC, enabling the same results more safely.

Keywords: Additive, Coccidiostatic, Cuniculture, weight gain

Contact Address: Andressa Santanna Natel, University José Do Rosário Vellano (UNIFENAS), Agronomy, R.. Jairo Carvalho Vieira 103 Casa, 37131-572 Alfenas, Brazil, e-mail: andressa.zoo@gmail.com