



419 Research paper

Effects of a protected inclusion of organic acids and essential oils as antibiotic growth promoter alternative on growth performance,

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In Significant Impact Groups:

Feed / gut health \ Feed additives and supplements

Species targeted: Poultry;

Age: Adult;Young;

Summary:

This experiment was conducted to investigate the effects of protected essential oils and organic acids mixture on poultry feeding. Product supplementation improved spleen index, villus height and crypt depth of the jejunum at 42 days when compared with the control ($P < 0.05$). In addition, secretory immunoglobulin A level of ileal mucosa and trypsin and chymotrypsin activities of intestinal tract were higher in the P treatment. Bacterial sequence analysis of the intestinal tract revealed that protected essential oils and organic acids mixture supplementation changed gut microflora mainly in Lactobacillus. These data suggested that dietary mixture of organic acids and essential oils addition could be used in the poultry industry as an antibiotic growth promoter alternative.

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<https://onlinelibrary.wiley.com/doi/abs/10.1111/asj.12782>; <https://doi.org/10.1111/asj.12782>

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