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2	Bukti konfirmasi Hasil Review	22 Oktober 2019
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1. Bukti konfirmasi submit artikel dan artikel yang disubmit (15 Oktober 2019)

Manuscript MH20190701050755-R1 is submitted to Journal Advances in Animal and Veterinary Sciences

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4. Bukti konfirmasi artikel published online (26 November 2022)



Effect of Supplementation Organic Acid Salt and Probiotics Derived from Silage of Kumpai Tembaga Grass on Quality Carcass and Meat of Pegagan Duck

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Abstract | The aim of this study was to determine the supplement effect of organic acid salt and probiotics derived from silage of kumpai tembaga grass on yield Carcass and meat of pegagan duck. The research was conducted in 4 weeks. The sample used was 72 Pegagan ducks at one-day-old. The treatments were P0 (ration), P1 (ration+0.02% probiotic), P2 (ration+0.2% organic acid salt), P3 (ration+0.1% tetracycline), P4 (ration+0.02% probiotic+0.2% organic acid salt), P5 (ration+0.02% probiotic+0.2% organic acid salt+0.1% tetracycline). The observed variables were live weight, carcass weight, and percentage carcass slice (thighs, breast, back, wings), pH, water holding capacity, shrinkage and meat tenderness. The results showed that supplementation of organic acid salts and probiotics had no significant effect ($P > 0.05$) to live weight, carcass and carcass percentage, carcass slice (thighs, breast, back and wings), pH, water holding capacity, shrinkage and meat tenderness. However, the variables carcass weight and percentage had a tendency increase on supplementation compared to the control treatment. In conclusion, organic acid salts and probiotic treatments did not affect carcass and meat quality but showed a tendency to increase carcass weight and the percentage of carcass and commercial breast slices from Pegagan duck.

Keywords | Carcass, Kumpai tembaga grass silage, Meat quality, Organic acid salt, Pegagan duck

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INTRODUCTION

Duck carcass and meat are one of the poultry products widely consumed due to its cheapness compared to cow meat. The increase of carcass and meat production can be achieved by improving ration quality fed in an optimum way. In addition to nutrition intake, an additional supplement can be added into ration to enhance animal growth as well as carcass and meat in form of probiotic and organic acid salt. The secondary metabolite produced from silage forage swamp particularly kumpai tembaga grass has the potential use as probiotic and organic acid. According to Sandi et al. (2017), kumpai tembaga silage provides a larger amount of lactic acid and its corresponding bacteria compared to swamp legume silage and silage of grass combined with the legume.

Probiotic is a microbe that lives within its host and gives positive influence in enhancing microorganism balance in the digestive tract (Fuller, 1989). It is well known that probiotic provides good influence on livestock performance particularly on increasing the intestine ability to digest ration by improving microflora balance. As the performance of digestive tract increased in absorbing nutrient especially protein, the carcass and meat production will also increase. Sukirmansyah et al. (2016) reported the utilization of probiotic fermentation ration shows no negative effect to the carcass weight, in fact, it was able to increase carcass and slice percentage of Pecking duck in 8 weeks of age.

Organic acid acts as an acidifier to create the acidic condition in the small intestine and provide a good environment for *Lactobacillus* growth and other non-