

## The Using of Protected Fatty Acid Supplement to Improve Carcass Percentage of Broiler Chicken

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### ABSTRACT

The research was aimed to know the percentage carcass of broiler with ration supplementation of protected fatty acid. The sample used in this research is 48 broiler chickens unsexed strain avian CP707 production of PT. Charoen Phokhpand Makassar divided in 12 plots enclosure 1x1 meters. The design of this research is a Completely Randomized Design with 3 treatments and 4 replications. The treatments were T0 = commercial ration BP-11, T1 = T0+3% dry carboxylate salt mixed (DCM), T2-T0+3% coconut oil hydrolisate. Variables measured were weight gain (kg), weight carcass (kg) and percentage carcass (%). Data were analyzed by variance analysis and continued by orthogonal contrast test. The conclusion showed that (1) ration with supplementation 3% dry carboxy late salt mixed give result  $2,00\pm 0,04$  kg weight gain,  $1,34\pm 0,05$  kg weight carcass and  $66,88\pm 2,19\%$  percentage carcass, (2) ration with supplementation 3% coconut oil hydrolisate give result  $1,91\pm 0,05$  kg weight gain,  $1,29\pm 0,07$  weight carcass and  $67,28\pm 2,29\%$  percentage carcass, (3) ration with 3% supplementation of protected fatty acid cannot improve weight gain, weight carcass and percentage carcass broiler chicken.

Key Words : Fatty Acid, Weight Gain, Weight Carcass, Percentage Carcass, Chicken Broiler



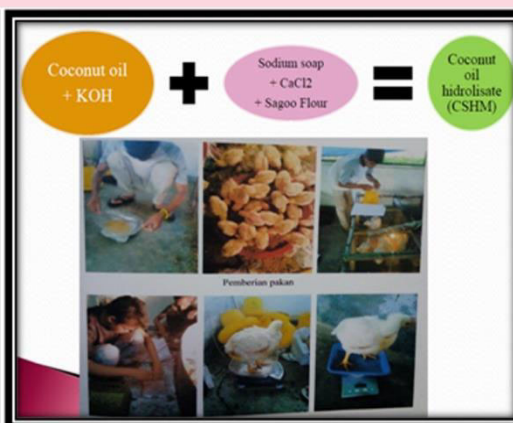
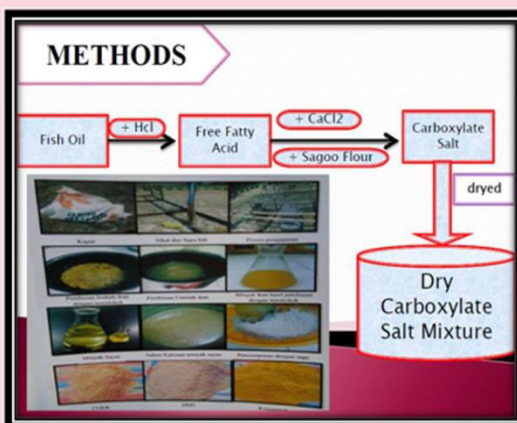
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The research was aimed to know the percentage carcass of broiler with ration supplementation of protected fatty acid. The sample used in this research is 48 broiler chickens unsexed strain avian CP707 production of PT. Charoen Phokhpand Makassar divided in 12 plots enclosure 1x1 meters. The design of this research is a Completely Randomized Design with 3 treatments and 4 replications. The treatments were are T0 = commercial ration BP-11, T1 = T0+3% dry carboxy late salt mixed (DCM), T2-T0+3% coconut oil hydrolisate. Variables measured were weight gain (kg), weight carcass (kg) and percentage percentage carcass (%). Data were analyzed by variance analysis and continued by orthogonal contrast test. The conclusion showed that (1) ration with supplementation 3% dry carboxy late salt mixed give result 2,00±0,04 kg weight gain, 1,34±0,05 kg weight carcass and 66,88±2,19% percentage carcass, (2) ration with supplementation 3% coconut oil hydrolisate give result 1,91±0,05 kg weight gain, 1,29±0,07 weight carcass and 67,28±2,29% percentage carcass, (3) ration with 3% supplementation of protected fatty acid can not improve weight gain, weight carcass and percentage carcass broiler chicken.



**RESULT**

Variables	T1 (Control)	T2 (3% DCM)	T3 (3% COH)
Weekly gain (g)	1,75	2,05	1,90
Carcass weight (g)	1,70	2,00	1,85
Carcass Percentage (g)	1,80	1,95	1,95

**CONCLUSION**

Supplementing 3% protected fatty acid (3% DCM or 3% COH) in ration have not improved weakly gain, carcass weight, and carcass percentage broiler chickens.