

The Effect of Storage Period on Chemical Composition of Hydrolyzed Feeds for Broiler

Denvy Meidian Daoed, A. M. Tasse, and A. Indi



INTERNATIONAL SEMINAR FACULTY OF ANIMAL SCIENCE HALU OLEO UNIVERSITY

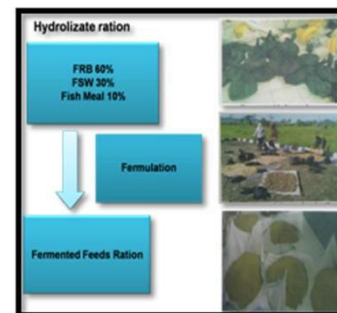
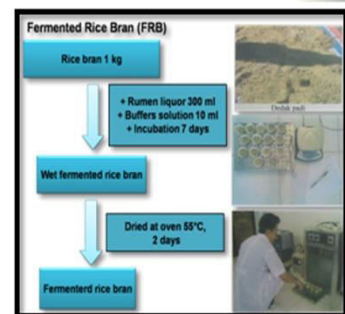
THE EFFECT OF STORAGE PERIOD ON CHEMICAL COMPOSITION OF HYDROLYZED FEEDS FOR BROILER

Denvy Meidian Daoed, Andi Murlina Tasse, Amiluddin Indi
 Faculty of Animal Science, Halu Oleo University

SUMMARY

The experiment was aimed to study the effect of storage period on chemical composition of hydrolyzed feeds for broiler. The experiment was conducted at November 2013 at Laboratory of Animal Science, Faculty of Animal Science, Halu Oleo University, Kendari. Fermented feeds i.e rice bran, sago waste and fish waste was fermented using rumen liquor during 3 days. The hydrolyzed feeds was stored during 0, 1, 2, 3, and 4 weeks. Chemical composition consist of water, ash, crude protein, ether extract and crude fibre of fermented feeds. The data was analyzed using Analisis of Variance based on Completely Randomized Design and Duncan Multiple Range test. The results showed that the storage period gave a significant effect ($p < 0.01$) on water, ash, protein, ether extract and crude fibre of hydrolyzed feeds. Increasing of storage period was followed by increasing of water and ash content of hydrolyzed feeds but decreasing crude protein, ether extract and crude fibre content. The conclusion of this experiment is storage period during 0, 1, 2, 3 and 4 weeks on 39°C of storage temperature increased the water and ash content but decreased the crude protein, ether extract and crude fibre content of hydrolyzed feeds.

METHOD



RESULT

Variables	T1	T2	T3	T4	T5
Water (%)	5,57 ^a ± 0,67	9,77 ^b ± 0,72	10,74 ^b ± 0,15	11,40 ^c ± 0,25	12,50 ^d ± 0,00
Ash (%)	8,14 ^a ± 0,15	8,80 ^b ± 0,17	8,93 ^{bc} ± 0,12	9,27 ^c ± 0,15	10,50 ^d ± 0,10
Crude protein (%)	20,50 ^d ± 0,00	17,63 ^c ± 0,15	16,23 ^b ± 0,06	15,87 ^a ± 0,06	15,90 ^a ± 0,00
Ether Extract (%)	3,37 ^c ± 0,15	3,00 ^b ± 0,20	3,30 ^b ± 0,10	2,47 ^a ± 0,12	2,70 ^a ± 0,10
Crude Fibre (%)	9,40 ^a ± 0,36	8,50 ^d ± 0,10	7,33 ^c ± 0,40	6,20 ^b ± 0,10	5,57 ^a ± 0,21

CONCLUSION

The conclusion of this experiment is storage period during 0, 1, 2, 3 and 4 weeks on 39°C of storage temperature increased the water and ash content but decreased the crude protein, ether extract and crude fibre content of hydrolyzed feeds.