

NUTRITIONAL QUALITY OF WAFER MADE FROM PALM FROND SILAGES AND CORN HUSK USING DIFFERENT COMPOSITION

Zikra Mahmuda (11481104512)

Under the guidance of Dewi Febrina and Dewi Ananda Mucra

ABSTRACT

The availability of feed ingredients currently increasingly limited, because increasingly limited land for forage planting. Sebagai upaya to overcome it can be done by finding alternative feeds such as plantation waste. Palm frond and corn husk is a by-product waste from the plantation industry which can be used as a substitute for grass. But the two ingredients have low nutritional value. So, it needs to be processed first to improve its quality, make it easy to store and can be stored for a relatively long time in the form of silage and wafers. This research aims to know the nutritional quality of wafer made from oil palm frond silages which is combined with corn husk using different composition. This research has been carried out from January to March 2018 at the Laboratory of Agrostology, Feed Industry and Soil Science and Laboratory of Nutrition and Chemistry, Faculty of Agriculture and Animal Husbandry of State Islamic University of Sultan Syarif Kasim Riau. The research method uses a randomized complete design (RAL) consisting of 5 treatments and 3 replications. Parameters observed included physical quality of silage which includes colour, flavors, texture and the presence of fungi and the quality of wafer nutrition which includes dry ingredients (BK%), crude protein (PK%) and crude fiber (SK%). The research results showed that the wafers made from oil palm frond silages and corn husk gave highly significant effect ($P < 0,01$) against crude protein content, but did not give significant effect ($P > 0,05$) against content of dry ingredients and crude fiber. The best treatment is R2 with composition 50% palm fronds 50% corn husk, has a crude protein content 10,42%.

Key words: *Corn husk, nutritional quality, palm fronds, silage, wafer.*

UIN SUSKA RIAU

Hak Cipta Dilindungi Undang-Undang

1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber:
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar UIN Suska Riau.
2. Dilarang mengumumkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin UIN Suska Riau.