

PERSETUJUAN PEMBIMBING

**DAYA CERNA BAHAN KERING DAN BAHAN ORGANIK
SILASE PAKAN KOMPLIT BERBASIS JERAMI JAGUNG (*Zea mays*)
DAN DAUN GAMAL (*Gliricidia sepium*)**

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LEMBAR PENGESAHAN

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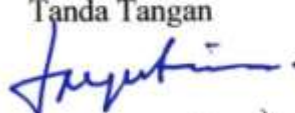

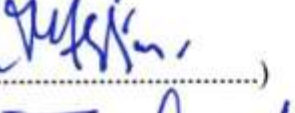

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Telah disidangkan dan dipertahankan didepan dewan penguji
Hari/Tanggal : Jum'at, 06 Juli 2018
Pukul : 13.00 s/d 15.00 WITA

Dewan Penguji :

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Gorontalo, 06 Juli 2018

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Fres Rustam (621413 032). Daya Cerna Bahan Kering dan Bahan Organik Silase Pakan Komplit Berbasis Jerami Jagung (*Zea mays*) dan Daun Gamal (*Gliricidia sepium*). Di bawah bimbingan Muhammad Sayuti Mas'ud dan Musrifah Nusi.

ABSTRAK SKRIPSI

Penelitian ini bertujuan untuk mengetahui daya cerna bahan kering dan bahan organik silase pakan komplit berbasis jerami jagung dan daun gamal. Penelitian dilakukan dengan membuat fermentasi silase pakan komplit kemudian diuji secara *in vitro* di laboratorium. Rancangan yang digunakan adalah rancangan acak lengkap (RAL) dengan 4 perlakuan dan 3 ulangan. Perlakuan adalah R0 = 100 % jerami jagung, R1 = 70 % jerami jagung + 5 % daun gamal + 25 % konsentrat, R2 = 65 % jerami jagung + 10 % daun gamal + 25 % konsentrat dan R3 = 60 % jerami jagung + 15 % daun gamal + 25 % konsentrat. Data dianalisis sidik ragam (ANOVA) dan diuji lanjut menggunakan uji Tukey. Hasil penelitian menunjukkan bahwa silase pakan komplit berbasis jerami jagung dan daun gamal berpengaruh sangat nyata ($P < 0.01$) terhadap daya cerna bahan kering dan bahan organik. Daya cerna bahan kering dan bahan organik pada perlakuan R0 tidak berbeda nyata ($P > 0.05$) dengan perlakuan R1, begitu juga antara perlakuan R2 dengan R3. Namun, perlakuan R0 dan R1 berbeda sangat nyata ($P < 0.01$) lebih rendah dari perlakuan R2 dan R3. Kesimpulan yaitu silase pakan komplit berbasis jerami jagung dan daun gamal yang terbaik pada perlakuan R2 yaitu 65% jerami jagung, 10% daun gamal dan 25% konsentrat dengan daya cerna bahan kering 49,61%, bahan organik 48,21% dan perlakuan R3 yaitu 60% jerami jagung, 15% daun gamal dan 25 % konsentrat dengan daya cerna bahan kering 51,25%, bahan organik 49,94%.

Kata kunci : in vitro, pakan komplit, daya cerna, bahan kering, bahan organik

Fres Rustam (621413 032). Digestibility of Dry Matter and Organic Matter of Complete Feed Silage Based on Corn (*Zea mays*) Straw and Gamal (*Gliricidia sepium*) Leaves. The principal supervisor is Muhammad Sayuti Mas'ud and the co-supervisor is Musrifah Nusi.

ABSTRACT

The research aimed to know the digestibility of dry material and organic material of complete feed silage based on corn straw and gamal leaves. It was conducted by making complete feed silage fermentation, then to be tested *in vitro* in a laboratory. It applied a completely randomized design with 4 treatments and 3 replications. The treatments were R0 = 100% corn straw, R1 = 70% corn straw + 5% gamal leaves + 25% concentrate, R2 = 65% corn straw + 10% gamal leaves + 25% concentrate and R3 = 60% corn straw + 15% gamal leaves + 25% concentrate. The research data analysis employed Analysis of Variance (ANOVA) and continued to Tukey test. Research finding showed that complete feed silage based on corn straw and gamal leaves had a significant effect ($P < 0.01$) on digestibility of dry material and organic material. The dry material and organic material at treatment R0 were not different significantly ($P > 0.05$) with treatment R1 as well as treatment R2 with R3. However, treatments R0 and R1 were different significantly ($P < 0.01$) or lower than treatments R2 and R3. In conclusion, the best complete feed silage based on corn straw and gamal leaves was at treatment R2 namely 65% corn straw + 10% gamal leaves + 25% concentrate with digestibility of dry material for 49,61%, organic for 48,21% while treatment R3 namely 60% corn straw + 15% gamal leaves + 25% concentrate recorded digestibility of dry material for 51,25% and organic for 49,94%.

Keywords: in vitro, complete feed, digestibility, dry matter, organic matter