

Komposisi Kimia dan Kecernaan *In Vitro* Rumput *Brachiaria brizantha* cv. MG 5 yang Ditanam dengan Level Pemupukan NPK yang Berbeda

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INTISARI

Penelitian ini bertujuan untuk mengetahui kualitas rumput *Brachiaria brizantha* cv. MG 5 yang meliputi kandungan nutrisi dan pencernaan rumput *B. brizantha* cv. MG 5 yang meliputi pencernaan bahan kering (KcBK) dan pencernaan bahan organik (KcBO) yang ditanam dengan pemberian level pupuk NPK yang berbeda dengan metode *in vitro*. Perlakuan pupuk yang diberikan meliputi pupuk NPK 25-5-7 dengan level 0 kg/ha (P0), 150 kg/ha (P1) dan 300 kg/ha (P2). Pemberian pupuk dilakukan 2 kali selama pemeliharaan yaitu pada umur 15 hari dan 30 hari. Defoliasi dilakukan pada hari ke-60. Rumput *B. brizantha* cv. MG 5 yang sudah dipanen kemudian dioven dan digiling dihasilkan sampel yang kemudian dilakukan analisis proksimat dan analisis pencernaan *in vitro*. Data yang didapat kemudian dianalisis dengan menggunakan Rancangan Acak Lengkap (RAL) pola searah, kemudian bila terdapat perbedaan nyata sebagai efek perlakuan dilanjutkan dengan uji *Duncan's Multiple Range Test* (DMRT). Hasil penelitian menunjukkan bahwa pemberian pupuk NPK dengan level yang berbeda tidak berpengaruh nyata terhadap bahan kering, bahan organik, protein kasar, lemak kasar, serat kasar, pencernaan bahan kering (KcBK) dan pencernaan bahan organik (KcBO) rumput *B. brizantha* cv. MG 5.

Kata kunci : *Brachiaria brizantha* cv. MG 5, pencernaan, *in vitro*, pupuk NPK

Chemical Composition and *In Vitro* Digestibility of *Brachiaria brizantha* cv. MG 5 with Different Level of NPK Fertilizer

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Abstract

This research was aimed to know the quality of *Brachiaria brizantha* cv. MG 5 grass including the nutrient content and digestibility, which contains the digestibility of dry and organic matters planted with different level of NPK fertilizer. The analysis of *in vitro* digestibility was conducted in May 2015 in the Laboratory of Forage and Pasture, Faculty of Animal Science, Gadjah Mada University, Yogyakarta. The fertilizer used in this experiment was 25-5-7 NPK fertilizer. The treatment of fertilization were 0 kg/ha, 150 kg/ha and 300 kg/ha NPK fertilizer. The fertilizer was given twice during the plant growth, namely in the 15th and 30th day. The defoliation was conducted in the 60th day. *B. brizantha* cv. MG 5 grass was harvested and then put in an oven and grinded. The samples were measured their proximate content and *in vitro* digestibility. The obtained data were analyzed by using Completely Randomized Design (CRD) and continued with *Duncan's Multiple Range Test* (DMRT). The results showed that different fertilization level of NPK did not affect the dry and organic matters, crude protein, fat, and fiber, digestibility of dry and organic matters of *B. brizantha* cv. MG 5 grass.

Keywords : *Brachiaria brizantha* cv. MG 5, digestibility, *in vitro*, NPK fertilizer