

Efek Suplementasi Tepung Rumput Laut Merah (*Gracilaria* sp.) Terhadap Kecernaan Bahan Kering Dan Kecernaan Bahan Organik Pakan Domba Secara In Vitro

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Abstract	<p>Background. The aims of this research were to determine the best level of <i>Gracilaria</i> sp. Seaweed meal based on its effect on dry matter digestibility and organic matter digestibility of sheep feed on in vitro. Materials and methods. The materials used were rumen fluid from 3 sheeps that were kept in Greenhouse of Faculty of Animal Science Jenderal Soedirman University had been adapted with the feed to be tested. The treatments were supplementation of <i>Gracilaria</i> sp. seaweed meal at the level of 0% as control feed, P0 + 2% (P1), P0 + 4% (P2), P0 + 6% (P3), dan P0 + 8% (P4) of dry matter feed on a ration composed of 40% concentrate and 60% <i>Cynodon dactylon</i> forage. The method used was the experiment method using a Completely Randomized Design (CRD).The each treatment was repeated 4 times, so there were 20 experimental units. The variables measured were dry matter digestibility and organic matter digestibility. Results. The results of dry matter digestibility were 65.8 \bar{A}, $\bar{A} \pm 1.83\%$ (P0); 63.42 \bar{A}, $\bar{A} \pm 0.92\%$ (P1), 66.29 \bar{A}, $\bar{A} \pm 1.37\%$ (P2), 69.35 \bar{A}, $\bar{A} \pm 1.4\%$ (P3) and 71.04 \bar{A}, $\bar{A} \pm 2.44\%$ (P4). The results of organic material digestibility were 63.96 \bar{A}, $\bar{A} \pm 2.22\%$ (P0); 60.17 \bar{A}, $\bar{A} \pm 1.69\%$ (P1), 65.69 \bar{A}, $\bar{A} \pm 3.29\%$ (P2), 68.33 \bar{A}, $\bar{A} \pm 1.61\%$ (P3) and 69.72 \bar{A}, $\bar{A} \pm 2.77\%$ (P4). The results showed that the treatment had highly significant effect ($P < 0.01$) on the digestibility of dry matter and organic matter. The results showed that higher supplementation of seaweed meal (<i>Gracilaria</i> sp.) could increased digestibility (dry and organic matter). Conclusion. Based on these results it can be concluded that, supplementation of <i>Gracilaria</i> sp. seaweed meal at the level of 8% gives a significant effect on the dry matter digestibility and organic matter digestibility.</p>
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