

**PHYSICAL QUALITY AND NUTRITION GIANT SALVINIA OF SILAGE
(*Salvinia Molesta*) DIFFERENT ADDITION OF INOKULAN Effective
Microorganisme-4 (EM-4) WITH**

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ABSTRACT

Giant salvinia is a water weed that can be found in rice fields, lakes, swamps and ponds, giant salvinia contains 15.9% crude protein, 2.1% crude fat and 16.8% crude fiber. This study aims to determine the physical quality including pH value, color, smell, texture, and fungi and giant salvinia silage nutrition including crude protein (PK), crude fiber (SK), crude fat (LK) and dry matter (BK). This research was conducted at the Laboratory of Agrostology, Feed and Soil Science Industry Faculty of Agriculture and Animal Husbandry of the State Islamic University Sultan Syarif Kasim Riau, and the Agricultural Products Processing Laboratory of the University of Riau, from March to April 2018. This study used a completely randomized design consisting of 5 treatments and 3 replications, namely A0 = Giant salvinia + 0% EM-4 (control). A1 = Giant salvinia + 4% EM-4, A2 = Giant salvinia + 6% EM-4, A3 = Giant salvinia + 8% EM-4, A4 = Giant salvinia + 10% EM-4. The results of this study showed that the addition of Effective Microorganisme-4 (EM-4) inoculants had a significant effect ($P < 0.05$) on the silage of the mines. It can be concluded that the addition of 10% EM-4 produces the best giant salvinia silage with pH 4.02, crude protein 16.18%, dry matter 84.98%, crude fiber 14.02% and crude fat 1.63%.

Keywords: physical quality and nutrition, silage, giant salvinia, Effective Microorganisme-4 (EM-4)

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