

Kandungan Glukosa dan Serat Kasar Tanaman Sengon Umur 3 Bulan di Lapangan Dengan Pemupukan Organik

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INTISARI

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Penelitian hasil fotosintesis berupa glukosa dan serat kasar memberikan informasi yang lebih luas dan menyeluruh untuk mengetahui kualitas pertumbuhan tanaman dibanding dengan cara konvensional. Tujuan penelitian ini adalah : mengetahui pengaruh pemberian pupuk organik terhadap pertumbuhan tinggi dan diameter tanaman sengon umur 3 bulan di lapangan; mengetahui kandungan glukosa dan serat kasar pada masing-masing bagian vegetatif tanaman sengon umur 3 bulan di lapangan; mengetahui pengaruh pemberian pupuk organik terhadap kandungan glukosa dan serat kasar tanaman sengon umur 3 bulan.

Pertumbuhan sengon diukur dan dihitung biomasanya. Glukosa diuji menggunakan metode anthrone spektrofotometri dan serat kasar menggunakan metode *refluks*.

Pemberian pupuk organik tidak memberikan pengaruh yang nyata terhadap pertumbuhan tinggi dan diameter tanaman sengon umur 3 bulan di lapangan. Kandungan glukosa paling banyak ditemui pada bagian daun dan kandungan serat kasar paling banyak terdapat di batang. Pemberian pupuk organik tidak memberikan pengaruh yang nyata terhadap pembentukan glukosa dan serat kasar pada semua bagian vegetatif tanaman sengon umur.

Kata kunci : Sengon, Glukosa, Serat Kasar, Pupuk Organik.

Glucose and Crude Fiber Content of 3-Months-Old Sengon in Plantation With Organic Fertilizer

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ABSTRACT

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The studies of photosynthesis products of glucose and crude fibers provide a more comprehensive and thorough result when used to observe the quality of plant growth compared with the conventional method. The purpose of this study is: to perceive the effect of organic fertilizer on the growth of plant height and diameter of 3 months old sengon in the field; to perceive the content of glucose and crude fiber in each of the vegetative parts of plants of 3 months old sengon in the field; and to determine the effect of organic fertilizers on the content of glucose and crude fiber plants sengon age of 3 months.

The growth of sengon were measured and the biomass were calculated. Glucose was analyzed using the anthrone spectrophotometric method and crude fiber using reflux method.

Organic fertilizer does not have a significant influence on the growth of plant height and diameter of 3-months-old sengon in the field. Glucose content most commonly found in the leaves and crude fiber content are most numerous on the trunk. Organic fertilizer does not have a significant influence on the formation of glucose and crude fiber in each of the vegetative parts of plants sengon.

Keywords: Sengon, Glucose, Crude Fiber, Organic Fertilizer.