

## ABSTRAK

**Allisa Julia Putri. A.2010478.** Pengaruh Pemberian Pupuk Cangkang Telur Terhadap Pertumbuhan, Hasil, Kualitas, dan Organoleptik Selada Keriting (*Lactuca sativa* L.). Dibimbing oleh Oktavianus LT dan Yuliawati.

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Selada keriting di Indonesia merupakan jenis yang paling umum dibudidayakan. Salah satu jenis pupuk organik potensial untuk budidaya selada keriting adalah pupuk cangkang telur. Penelitian ini bertujuan untuk mempelajari pengaruh pemberian pupuk cangkang telur terhadap pertumbuhan, hasil, kualitas dan organoleptik selada keriting. Penelitian ini dilaksanakan pada bulan Maret sampai Mei 2022. Penelitian ini menggunakan rancangan acak lengkap faktorial, yaitu dosis pupuk cangkang telur (0%, 50%, 100%, 150%, dan 200%) dan varietas (Karina, Kreibo, dan New Grand Rapid) yang terdiri dari tiga ulangan. Peubah yang diamati yaitu, tinggi tanaman, jumlah daun, diameter batang, panjang daun, lebar daun, luas daun, bobot basah tajuk, bobot kering tajuk, bobot basah akar, bobot kering akar, panjang akar, warna daun, kekerasan batang, kemanisan daun, dan uji organoleptik. Varietas New Grand Rapid memiliki nilai lebih tinggi pada karakter tinggi tanaman, bobot basah tajuk, bobot kering tajuk, panjang akar, kemanisan daun, dan kerenyahan batang. Pemberian pupuk cangkang telur berpengaruh nyata terhadap jumlah daun, diameter batang, dan bobot kering tajuk. Pemberian dosis pupuk 50% menunjukkan nilai lebih tinggi pada jumlah daun varietas Karina. Varietas Karina yang diberi pupuk cangkang telur dengan dosis 50% rekomendasi nyata menunjukkan jumlah daun dan diameter batang tertinggi. Pemberian pupuk cangkang telur 200% rekomendasi pada varietas Karina menghasilkan tingkat kemanisan tertinggi, sedangkan varietas New Grand Rapid yang diberi pupuk cangkang telur dosis 200% rekomendasi menghasilkan daun paling renyah. Varietas Kreibo yang diberi dosis pupuk cangkang telur menghasilkan aroma yang paling disukai pada uji organoleptik.

Kata kunci : Kalsium, limbah cangkang telur, tingkat kemanisan

## ABSTRACT

**Allisa Julia Putri. A.2010478.** The Effect of Eggshell Fertilizer on Growth, Yield, Quality, and Organoleptic of Curly Lettuce (*Lactuca sativa* L.). Under immediate supervision of Oktavianus LT and Yuliawati.

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Curly lettuce in Indonesia is the most commonly cultivated type. One type of potential organic fertilizer for curly lettuce cultivation is eggshell fertilizer. This study aims to study the effect of eggshell fertilizer application on growth, yield, quality and organoleptic curly lettuce. This research was conducted from March to May 2022. This study used a factorial complete randomized design, namely eggshell fertilizer doses (0%, 50%, 100%, 150%, and 200%) and varieties (Karina, Kreibo, and New Grand Rapid) consisting of three replications. The observed variables were plant height, number of leaves, stem diameter, leaf length, leaf width, leaf area, shoot wet weight, shoot dry weight, root wet weight, root dry weight, root length, leaf color, stem hardness, leaf sweetness, and organoleptic test. The New Grand Rapid variety had higher values for plant height and crown wet weight. shoot dry weight, root length, leaf sweetness, and stem crispness. The application of eggshell fertilizer had a significant effect on the number of leaves, stem diameter, and shoot dry weight. The application of 50% fertilizer dose showed a higher value on the number of leaves of the Karina variety. The Karina variety that was given egg shell fertilizer at a recommended dose of 50% showed the highest number of leaves and stem diameter. The application of 200% recommended eggshell fertilizer to the Karina variety produced the highest level of sweetness, while the New Grand Rapid variety which was given the recommended 200% eggshell fertilizer produced the crunchiest leaves. The Kreibo variety which was dosed with eggshell fertilizer produced the most favorable aroma in organoleptic tests.

*Key words : Calcium, egg shell waste, sweetness level.*