

PERTUMBUHAN DAN HASIL TANAMAN TERUNG UNGU (*Solanum melongena* L.) PADA BERBAGAI DOSIS PUPUK NPK DAN KONSENTRASI POC SABUT KELAPA

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ABSTRAK

Produktivitas terung ungu masih tergolong rendah dan belum mampu memenuhi permintaan pasar sehingga diperlukan usaha peningkatan produksi melalui pemupukan. Penelitian bertujuan untuk mengetahui pertumbuhan dan hasil tanaman terung ungu pada berbagai dosis pupuk NPK dan konsentrasi POC sabut kelapa. Penelitian menggunakan Rancangan Acak Lengkap (RAL) 2 faktor + 1 kontrol dengan 3 ulangan. Faktor pertama adalah dosis pupuk NPK yaitu 10, 13, dan 16 g/tanaman. Faktor kedua adalah konsentrasi POC sabut kelapa yaitu 50, 75, dan 100 mL/L. Kontrol menggunakan pupuk NPK dosis 20 g/tanaman. Data dianalisis menggunakan sidik ragam (ANOVA) 5% dan dilanjutkan uji DMRT 5%. Perbedaan antara perlakuan dan kontrol dianalisis menggunakan Uji *Contrast Orthogonal*. Hasil penelitian menunjukkan terdapat interaksi pada tinggi tanaman (42 HST) dan waktu berbunga. NPK terbaik dosis 13g/tanaman pada diameter buah, panjang buah, dan berat buah per buah. POC sabut kelapa terbaik konsentrasi 75 mL/L pada tinggi tanaman 28 HST, jumlah daun (21 dan 28 HST), diameter batang (42 HST), diameter buah, berat buah segar per tanaman, dan indeks panen. Kombinasi perlakuan nyata lebih baik dibandingkan kontrol pada tinggi tanaman (21 HST), jumlah daun (21 HST), waktu berbunga, jumlah buah terung per tanaman, diameter buah, berat buah segar per tanaman, dan indeks panen.

Kata kunci: terung ungu, NPK, pupuk organik cair sabut kelapa

**GROWTH AND YIELD OF PURPLE EGGPLANT (*Solanum melongena* L.)
PLANTS AT VARIOUS NPK FERTILIZER DOSES AND
CONCENTRATIONS OF COCONUT FIBER LIQUID ORGANIC
FERTILIZER**

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ABSTRACT

Purple eggplant productivity is still relatively low and has not been able to meet market demand, so efforts are needed to increase production through fertilization. The study aims to determine the growth and yield of purple eggplant plants at various doses of NPK fertilizer and coconut fiber POC concentration. The study used a Completely Randomized Design (CRD) with 2 factors + 1 control with 3 replications. The first factor was the dose of NPK fertilizer, namely 10, 13, and 16 g/plant. The second factor was the concentration of coconut fiber POC, namely 50, 75, and 100 mL/L. The control used NPK fertilizer at a dose of 20 g/plant. Data were analyzed using a 5% analysis of variance (ANOVA) and continued with a 5% DMRT test. Differences between treatments and controls were analyzed using the Orthogonal Contrast Test. The results showed that there was an interaction between plant height (42 days after planting) and flowering time. The best NPK dose of 13 g/plant on fruit diameter, fruit length, and fruit weight per fruit. The best coconut fiber POC concentration of 75 mL/L on plant height 28 days after planting, number of leaves (21 and 28 days after planting), stem diameter (42 days after planting), fruit diameter, fresh fruit weight per plant, and harvest index. The combination of treatments was significantly better than the control in plant height (21 days after planting), number of mature leaves (21 days after planting), flowering time, number of eggplant fruits per plant, fruit diameter, fresh fruit weight per plant, and harvest index.

Key words: purple eggplant, NPK, coconut fiber liquid organic fertilizer