

## ABSTRAK

**Dini Andriani. 2020. Pengaruh Ragam Formulasi Nutrisi Sistem Hidroponik Irigasi Tetes Terhadap Pertumbuhan Tanaman dan Hasil Ubi Benih G0 Tiga Varietas Kentang (*Solanum Tuberosum L.*) . Di bawah bimbingan Budy Frasetya Taufik Qurrohman dan Juniarti Prihatiny Sahat.**

Kentang merupakan salah satu tanaman sayuran yang mendapat prioritas dalam pengembangannya dibandingkan sayuran lainnya. Komoditas kentang merupakan sumber karbohidrat rendah kalori sehingga berpotensi untuk substitusi beras dalam program diversifikasi pangan, sekaligus mendukung program ketahanan pangan. Penelitian ini dilaksanakan pada bulan Januari sampai Juni 2020 di Rumah Kassa Balai Penelitian Tanaman Sayuran Lembang. Menggunakan Rancangan Acak Lengkap (RAL) dua faktor, faktor pertama adalah Nutrisi (Nutrisi Sutyoso, Nutrisi Dianawati, Nutrisi Muhibuddin dan Nutrisi Darvisi) dan faktor kedua adalah Varietas (varietas Granola L, Varietas Papita Agrihorti dan Varietas AR08) sehingga terdapat 12 kombinasi perlakuan yang diulang tiga kali. Berdasarkan hasil analisis menunjukkan terdapat interaksi antara formulasi nutrisi dan varietas pada parameter tinggi tanaman (3,4,5,6 dan 9 MST) dan diameter batang (4 MST) dan pengaruh mandiri pada parameter luas daun, berat segar brangkasan, berat kering brangkasan, berat segar ubi pertanaman, jumlah ubi pertanaman dan ukuran ubi. Pertumbuhan dan hasil ubi kentang G0 pada formulasi nutrisi Darvishi dan Varietas Papita Agrihorti dapat meningkatkan pertumbuhan dan hasil ubi beni lebih baik.

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Kata Kunci : Hidroponik, Kentang, Nutrisi, Unsur Hara, dan Varietas.

## ABSTRACT

**Dini Andriani. 2020. The Effect of Drip Irrigation Hydroponic System Nutritional Formulations on Plant Growth and Yield Yield of G0 Three Varieties of Potato (*Solanum Tuberosum L.*). Under the guidance of Budy Frasetya Taufik Qurrohman and Juniarti Prihatiny Sahat.**

Potatoes are one of the vegetable crops that have priority in their development compared to other vegetables. The potato commodity is a source of low-calorie carbohydrates so that it has the potential to substitute rice in food diversification programs, as well as support food security programs. This research was conducted from January to June 2020 at the Screen House of the Lembang Vegetable Research Institute. Using a two-factor Completely Randomized Design (CRD), the first factor is nutrition (Sutiyoso nutrition, Dianawati nutrition, Muhibuddin nutrition and Darvisi nutrition) and the second factor is variety (Granola L variety, Papita Agrihorti variety and AR08 variety) so that there are 12 different treatment combinations. repeated three times. Based on the results of the analysis, there was an interaction between nutritional formulations and varieties on the parameters of plant height (3,4,5,6 and 9 WAP) and stem diameter (4 WAP) and independent effects on parameters of leaf area, fresh weight of stover, stover dry weight fresh weight of the yams planted, the number of yams planted and the size of the yams. The growth and yield of G0 potato in the nutritional formulation of Darvishi and Papita Agrihorti varieties can increase the growth and yield of better yams.

Keywords: Hydroponics, Potatoes, Nutrition, Nutrients, and Varieties.