

ABSTRAK

PENGARUH KOMBINASI JENIS DAN KONSENTRASI ZAT PENGATUR TUMBUH TERHADAP PERTUMBUHAN STEK LEMON (*Citrus limon* L.)

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Tanaman lemon (*Citrus limon* L.) dikenal oleh masyarakat karena memiliki banyak manfaat. memiliki nilai ekonomis yang cukup tinggi dan memiliki peluang pasar yang cerah untuk dikembangkan secara intensif. Keberhasilan stek dipengaruhi oleh faktor eksternal dan faktor internal tanaman seperti media tanam, suhu, kelembaban, umur stek dan hormon. Penambahan hormon dengan menggunakan zat pengatur tumbuh alami maupun sintetik diperlukan untuk meningkatkan kualitas maupun produktivitas tanaman. Penelitian ini dilakukan untuk mengetahui pengaruh jenis zat pengatur tumbuh terhadap pertumbuhan stek lemon. Percobaan dilaksanakan pada bulan Juni sampai dengan Agustus 2024 di *Greenhouse* Balai Perlindungan Tanaman Pangan dan Hortikultura (BPTPH) Sub Unit Pelayanan PTPH Wilayah V yang terletak di Kota Tasikmalaya, Jawa Barat. Percobaan dilakukan dengan Rancangan Acak Kelompok terdiri dari 8 perlakuan yang dicoba yaitu : A = Tanpa zat pengatur tumbuh (kontrol), B = Ekstrak bawang merah 60%, nC = Ekstrak lidah buaya 35%, D = Rootone-F 45%, E = Ekstrak bawang merah 60% + ekstrak lidah buaya 35%, F = Ekstrak bawang merah 60% + Rootone-F 45%, G = Ekstrak lidah buaya 35% + Rootone-F 45%, H = Ekstrak bawang merah 60% + ekstrak lidah buaya 35% + rootone-f 45%. Hasil penelitian menunjukkan bahwa kombinasi jenis zat pengatur tumbuh berpengaruh terhadap pertumbuhan stek lemon pada variabel panjang akar, bobot basah akar dan bobot kering akar

Kata kunci : lemon, stek, zat pengatur tumbuh

ABSTRACT
THE EFFECT OF COMBINATION OF TYPES AND CONCENTRATIONS
OF PLANT GROWTH REGULATORS ON THE GROWTH OF LEMON
(*Citrus limon.*) CUTTINGS

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Lemon plants (*Citrus limon* L.) are known by the public because they have many benefits and has a fairly high economic value and has a bright market opportunity to be developed intensively. The success of cuttings is influenced by external and internal plant factors such as planting media, temperature, humidity, age of cuttings and hormones. The addition of hormones using natural or synthetic growth regulators is needed to improve plant quality and productivity. This research was conducted to determine the effect of growth regulator types on the growth of lemon cuttings. This research was conducted from June to August 2024 at the *Greenhouse* of the Center for Food Crop Protection and Horticulture (BPTPH) Region V located in Tasikmalaya City, West Java. This experiment was carried out using a Randomized Block Design consisting of 5 treatments that were tried namely : A = without growth regulators (control), B = shallots extract 60%, C = aloe vera extract 35%, D = Rootone-F 45%, E = shallots extract 60% + aloe vera extract 35%, F = shallots extract 60% + Rootone-F 45%, G = aloe vera 35% + Rootone-F 45%, H = shallots extract 60% + aloe vera extract 35% + Rootone-F 45%. The results showed that the combination of plant growth regulators affects the growth of lemon cuttings on root length variables, root wet weight and root dry weight.

Keyword : cuttings, lemon, plant growth regulator