

**PENGARUH PEMBERIAN BERBAGAI MACAM ZAT PENGATUR
TUMBUH TERHADAP PERTUMBUHAN STEK PUCUK JAMBU AIR
(*Syzygium aqueum* Burm.) VARIETAS CITRA**

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ABSTRAK

Masalah utama dalam penyetekan adalah sulit terbentuknya akar. Usaha yang dilakukan untuk merangsang, mendorong, dan mempercepat pembentukan akar serta meningkatkan jumlah akar dan panjang akar yaitu dengan pemberian zat pengatur tumbuh (ZPT). Zat pengatur tumbuh yang digunakan dapat bersifat alami dan sintetis. Penelitian ini bertujuan untuk memperoleh jenis ZPT yang terbaik dalam meningkatkan pertumbuhan pada stek pucuk jambu air citra. Penelitian dilaksanakan pada bulan Mei 2021 – Agustus 2021 di Kebun Percobaan Fakultas Pertanian Universitas Pembangunan Nasional “Veteran” Yogyakarta. Metode penelitian disusun dengan Rancangan Acak Lengkap (RAL) faktor tunggal. Perlakuan: tanpa ZPT, ekstrak bawang merah 90%, air kelapa 25%, ekstrak kecambah kacang hijau (tauge) 75%, rootone-F 300 ppm, IBA 100 ppm, dan NAA 100 ppm. Perlakuan diulang 4 kali sehingga jumlah unit percobaan sebanyak $7 \times 4 = 28$. Setiap unit percobaan terdiri atas 10 tanaman, sehingga kebutuhan bahan stek $28 \times 10 = 280$. Hasil penelitian menunjukkan bahwa ZPT NAA 100 ppm memberikan hasil paling baik terhadap parameter persentase hidup, jumlah tunas, panjang tunas terpanjang, jumlah daun, tinggi tanaman, panjang akar terpanjang, jumlah akar, dan volume akar.

Kata kunci: stek, zpt, jambu air

**THE EFFECT OF VARIOUS PLANT GROWTH REGULATOR
ON THE GROWTH OF SHOOTS CUTTING OF WATER GUAVA CITRA
(*Syzygium aqueum* Burm.)**

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ABSTRACT

The main problem of shoots cutting is difficult root formed. The efforts are made to stimulate, encourage, accelerate root formation, increase root number, and increase root quality is by giving Plant Growth Regulator (PGR). Plant Growth Regulator used natural and synthetic. This study aims to obtain the best various of Plant Growth Regulator (PGR) that increase on the growth of shoot cutting of Guava Citra. This research has been carried out on May 2021 – August 2021 at the Experimental Garden of Faculty of Agriculture Universitas Pembangunan Nasional “Veteran” Yogyakarta. This research method used Completely Randomized Design (CRD) that consist of one factor. The treatments are non-PGR, 90% shallots extract, 25% coconut water, 75% green bean sprouts extract, 300 ppm rootone-F, 100 ppm IBA, 100 ppm NAA. There were 7 treatments with 4 replications, so that the number of experimental unit was $7 \times 4 = 28$. Each experimental unit consist of 10 plants, so the cuttings material needs $28 \times 10 = 280$. The result of this research showed that 100 ppm NAA had the best result on parameter were percentage of growth, amount of shoots, length of shoots, amount of leaves, height of plant, length of root, amount of root, and root volume.

Keywords: shoots cutting, Plant Growth Regulator (PGR), water guava