

INDUKSI PARTENOKARPI PADA TERUNG BELANDA (*Cyphomandra betacea* (Cav.) Sendt.) DENGAN GIBERELIN

Devi Yolanda Silitonga (NIM 4132220014)

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh Giberelin (GA_3) terhadap induksi partenokarpi pada terung belanda (*Cyphomandra betacea* (Cav.) Sendt.). Penelitian ini dilaksanakan pada bulan April – Agustus 2017 di kebun percobaan Balai Penelitian Tanaman Sayur. Rancangan percobaan dalam penelitian ini adalah Rancangan Acak Kelompok (RAK). Konsentrasi Giberelin (GA_3) yang digunakan dalam penelitian ini adalah 0 ppm (kontrol), 10 ppm, 20 ppm, 30 ppm, dan 40 ppm yang diaplikasikan sebanyak enam kali. Parameter yang diamati adalah persentase terbentuknya buah, tebal daging buah, bobot buah, bobot daging buah, bobot biji, dan jumlah biji potensial, biji bernas, dan biji *degenerated*. Hasil penelitian menunjukkan bahwa aplikasi Giberelin (GA_3) memberi pengaruh nyata terhadap jumlah biji potensial, biji bernas, dan biji *degenerated*, namun tidak berpengaruh nyata terhadap persentase terbentuknya buah, tebal daging buah, bobot buah, bobot daging buah, bobot biji.

Kata kunci: Giberelin (GA_3), terung belanda (*Cyphomandra betacea* (Cav.) Sendt.), partenokarpi

**PARTHENOCARPY INDUCTION ON DUTCH EGGPLANT
(*Cyphomandra betacea* (Cav.) Sendt.) WITH GIBERELIN**

Devi Yolanda Silitonga (NIM 4132220014)

ABSTRACT

This study aimed to determine the effect of Giberelin (GA₃) on the induction of parthenocarpy on dutch eggplant (*Cyphomandra betacea* (Cav.) Sendt.). The study was conducted in April - August 2017 in the experimental garden of Balai Penelitian Tanaman Sayur, Tongkoh, Berastagi. The experimental design in this study was Randomized Block Design (RAK). The concentration of Giberelin (GA₃) used in this study was 0 ppm (control), 10 ppm, 20 ppm, 30 ppm, and 40 ppm applied as many as six times. The parameters observed were the percentage of fruit set, the thickness of the yield, the weight of the fruit, the weight of the fruit yield, the weight of the seed, and the number of potential seeds, the pithy seeds, and the degenerated seeds. The results showed that the application of Giberellin (GA₃) gave a significant effect on the number of potential seeds, seeds and degenerated seeds, but not significant effect on the percentage of fruit formation, fruit thickness, fruit weight, fruit yield weight, seed weight.

Keywords: Giberellin (GA₃), dutch eggplant (*Cyphomandra betacea* (Cav.) Sendt.), parthenocarpy