

## ABSTRAK

**William Jefferson Siahaan, NIM 4173220024 (2021). Pengaruh Konsentrasi dan Frekuensi Pemberian Paclobutrazol terhadap Pembungaan Anggrek *Dendrobium* 'Arirang Green'.**

Penelitian ini bertujuan untuk mengetahui konsentrasi dan frekuensi pemberian paclobutrazol yang efektif serta pengaruhnya terhadap pembungaan *Dendrobium* 'Arirang Green'. Penelitian dilaksanakan di halaman belakang Bima Utomo Waterpark Jl. Ampera pasar 6 Batang Jambu, Desa Sidodadi, Kec. Batang Kuis, Kabupaten Deli Serdang, Sumatera Utara, dari Februari hingga April 2021. Penelitian dirancang secara acak lengkap (RAK) faktorial yang terdiri atas 2 faktor dan 3 kali ulangan. Faktor pertama adalah konsentrasi paclobutrazol (0; 25; 50; 75 ppm) dan faktor kedua adalah frekuensi pemberian paclobutrazol (seminggu sekali dan dua minggu sekali). Pengamatan dilakukan seminggu sekali, 1 minggu setelah perlakuan paclobutrazol, yang meliputi waktu kemunculan kuncup, persentase tanaman berkuncup, waktu kemunculan bunga, persentase tanaman berbunga dan jumlah bunga. Data kemudian dianalisis dengan sidik ragam dan uji BNT. Hasil penelitian menunjukkan perlakuan 50 ppm + dua minggu sekali (A2B2) merupakan perlakuan terbaik dengan rata-rata waktu berkuncup 5 MST; persentase berkuncup 75%; rata-rata waktu berbunga 7,5 MST; persentase berbunga 50%, dan rata-rata 5 bunga. Konsentrasi pemberian paclobutrazol terhadap waktu munculnya kuncup bunga tanaman Anggrek *D. 'Arirang Green'* memberikan pengaruh yang berbeda nyata terhadap waktu kemunculan kuncup, namun tidak berpengaruh nyata terhadap waktu kemunculan bunga.

**Kata Kunci:** paclobutrazol, konsentrasi, frekuensi, pengaruh, *Dendrobium* 'Arirang Green'.



## ABSTRACT

**William Jefferson Siahaan, NIM 4173220024 (2021). The Influences of Paclobutrazol's Dose and Frequency of Application on Flowering of *Dendrobium* 'Arirang Green'.**

This study aimed to know the of Paclobutrazol's effective dose and frequency of application and its influences on flowering parameter of *Dendrobium* 'Arirang Green'. This research was carried out at the backyard of Bima Utomo Waterpark, Sidodadi village, Batang Kuis District, Deli Serdang Regency, North Sumatra, from February until April 2021. This study used Randomized Design Factorial Group with two factors and three repetitions, where the first factor was the dose of paclobutrazol (0 ppm, 25 ppm, 50 ppm, 75 ppm) and the second factor is the frequency of application of paclobutrazol (once/week and twice/week). Data was collected once/week after application of paclobutrazol which parameters was the budding time, percentage of budding-plant, flowering time, percentage of flowering-plant and the total of the flowers. Data then analyzed with ANOVA and LSD test. Result of this research showed that the combination of 50 ppm paclobutrazol with twice/week of application has demonstrated 75% percentage of budding, 50% percentage of flowering with 5 flower, 5 WAP average of budding time, and 7,5 WAP average of flowering time. There were significant influences of the application dose of paclobutrazol in budding time of *Dendrobium* 'Arirang Green', but have insignificant influence in flowering time.

**Keywords:** paclobutrazol, dose, frequency, influences, *Dendrobium* 'Arirang Green'.

