

## **ABSTRAK**

### **PENGARUH KONSENTRASI $KNO_3$ TERHADAP VIABILITAS DAN VIGOR BENIH JATI (*Tectona grandis* Linn. f)**

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Benih jati mempunyai kulit keras yang menyebabkan sulit berkecambah, untuk itu diperlukan perlakuan benih sebelum benih disemaikan menggunakan larutan garam  $KNO_3$ . Penelitian ini bertujuan untuk menguji pengaruh konsentrasi  $KNO_3$  terhadap viabilitas dan vigor benih jati. Percobaan ini dilaksanakan di *Screen House* Mugarsari, Fakultas Pertanian, Universitas Siliwangi, Tasikmalaya pada bulan Desember 2021 sampai dengan Januari 2022. Menggunakan Rancangan Acak Kelompok dengan 5 perlakuan yaitu kontrol, larutan  $KNO_3$  0,5%, larutan  $KNO_3$  1%, larutan  $KNO_3$  1,5%, dan larutan  $KNO_3$  2%. Setiap perlakuan diulang sebanyak 5 kali, data pengamatan dianalisis menggunakan uji F dan dilanjutkan dengan Uji Jarak Berganda Duncan dengan taraf 5%. Hasil penelitian menunjukkan bahwa konsentrasi larutan  $KNO_3$  1% berpengaruh terhadap viabilitas tetapi tidak berpengaruh pada vigor benih kayu jati (*Tectona grandis* Linn f.).

Kata kunci : jati,  $KNO_3$ , viabilitas, Vigor

## **ABSTRACT**

### **THE EFFECT OF KNO<sub>3</sub> CONCENTRATION ON VIABILITY AND VIGOR OF TEAK SEED (*Tectona grandis* Linn. f)**

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Teak seeds have a hard skin that makes it difficult to germinate, for that it is necessary to treat the seeds before the seeds are sown using a KNO<sub>3</sub> salt solution. This study aimed to examine the effect of KNO<sub>3</sub> on the viability and vigor of teak seeds. This experiment was conducted at Tasikmalaya, Mugarsari Screen House, Faculty of Agriculture, Siliwangi University from December 2021 to January 2022. Using a randomized block design with 5 treatments, namely control, 0.5% KNO<sub>3</sub> solution, 1% KNO<sub>3</sub> solution, 1.5% KNO<sub>3</sub> solution, and 2% KNO<sub>3</sub> solution. Each treatment was repeated 5 times, the observational data were analyzed using the F test and continued with Duncan's Multiple Distance Test with a level of 5%. The results showed that the concentration of 1% KNO<sub>3</sub> solution affected the viability but had no effect on vigor of teak (*Tectona grandis* Linn. f) seeds.

Keywords : teak, KNO<sub>3</sub>, viability, vigor