

***ACTIVITY OF SUNGKAI LEAF EXTRACT
(Peronema Canescens) on DURIAN WOOD
AGAINST TERMITES
(Coptotermes curvignathus)***

ABSTRACT

Indonesian lightwood export in 2020 are valued at 1,74 billion United States dollar. Wood from durian is a type of lightwood, but is easily attacked by termites. This research was conducted to determine the activity extract of Sungkai leaves (Peronema canescens) on durian wood against termites (Coptotermes curvignathus). The test is carried out by measuring the reduction in the weight of the wood and the obtained LC₅₀ value of termite mortality. LC₅₀ value of sungkai leaf extract activity consecutively, namely, wood soaking with a duration of 2 hours > 1 hour with a consecutive LC₅₀ value of 1.39462%; 3.33503% as well as the lowest reduction in wood weight at an extract concentration of 4 % soaking duration of 2 hours.

Keyword: Durian wood, Peronema canescens, Coptotermes curvignathus

**AKTIVITAS EKSTRAK DAUN SUNGKAI
(*Peronema Canescens*) PADA KAYU DURIAN
TERHADAP SERANGAN RAYAP TANAH
(*Coptotermes curvignathus*)**

ABSTRAK

Pada tahun 2020 tercatat ekspor kayu ringan Indonesia senilai 1,74 milyar Dolar AS. Kayu durian merupakan jenis kayu ringan, namun rentan terhadap serangan rayap tanah. Penelitian ini dilakukan untuk mengetahui aktivitas ekstrak daun sungkai (*Peronema canescens*) pada kayu durian terhadap serangan rayap tanah (*Coptotermes curvignathus*). Pengujian dilakukan dengan mengukur pengurangan berat kayu dan nilai LC₅₀ mortalitas rayap. Nilai LC₅₀ aktivitas ekstrak daun sungkai berturut-turut yaitu, perendaman kayu dengan lama 2 jam > 1 jam dengan Nilai LC₅₀ berturut-turut 1,39462%; 3,33503% serta pengurangan berat kayu terendah pada konsentrasi ekstrak 4 % lama perendaman 2 jam.

Kata Kunci : Kayu durian, *Peronema canescens*,
Coptotermes curvignathus