

**ARANG DAN CUKA KAYU : PRODUK HHBK UNTUK
STIMULAN PERTUMBUHAN MENGGKUDU (*Morinda citrifolia*)**
*(The Influence of Charcoal, Compost Charcoal, Wood Vinegar and
Mycorrhiza to Mengkudu Seedlings Growth)*

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Diterima 13 Mei 2011, disetujui 20 Juni 2011

ABSTRACT

*This report described the application results of charcoal, compost charcoal, wood vinegar and mycorrhiza on the growing media of *Morinda citrifolia* seedlings for 3-month duration. The objective of this work was to study the application of charcoal, compost charcoal, wood vinegar and mycorrhiza to the seedlings growth character.*

The results revealed that the use of vegetation litter compost charcoal, sawdust charcoal, and bamboo charcoal each as much as 20% brought about the increase in the growths of those mengkudu seedlings with respect to height, diameter, leaf length, and leaf width compared to those of untreated seedlings (control). Meanwhile, the use of wood vinegar as 2% was also able to increase those growth parameters, particularly the diameter of mengkudu seedlings that sustained 3 fold increase in comparison with the control. The mixture of vegetation litter compost charcoal (10%) and wood vinegar (2%) presented the best mixture, and brought out significant effect on the growth of mengkudu seedlings, particularly the increase in their height, leaf length, and leaf width as many consecutively 2.72; 2.13 and 1.40 times as those of the control (untreated mengkudu seedlings). On the other hand, the use of mycorrhiza as much as just one tablet afforded as well the growth in the height, diameter, and leaf length, leaf width as many consecutively 2.16; 1.67; 2.08 and 1.50 times as those of the control.

Keywords : Compost charcoal, mycorrhiza, bamboo charcoal, wood vinegar, growth

ABSTRAK

Tulisan ini menyajikan hasil penelitian pemanfaatan arang kompos serasah, arang serbuk gergaji, arang bambu, cuka kayu, campuran arang kompos serasah dan cuka kayu dan mikoriza terhadap media tumbuh anakan mengkudu selama tiga bulan di Rumah Kaca.

Tujuan penelitian adalah untuk mengetahui pengaruh penambahan arang serbuk gergaji, arang bambu, arang kompos serasah, cuka kayu dan mikoriza terhadap pertumbuhan anakan . Hasil penelitian menunjukkan bahwa arang kompos serasah, arang serbuk gergaji dan arang bambu sebesar 20% dapat meningkatkan pertumbuhan tinggi, diameter, panjang dan lebar daun anakan mengkudu. Cuka kayu dengan konsentrasi 2% dapat meningkatkan pertumbuhan terutama diameter anakan mengkudu.sebesar 3 kali. Campuran arang kompos serasah 10% dan cuka kayu 2% merupakan kombinasi terbaik dan memberikan pengaruh terhadap pertumbuhan anakan mengkudu terutama pada peningkatan pertumbuhan tinggi, panjang dan lebar daun sebesar 2,72; 2,13 dan 1,40 kali. Penambahan 1 tablet mikoriza dapat meningkatkan mpertumbuhan tinggi, diameter, panjang dan lebar daun anakan mengkudu sebesar 2,18 ; 1,67 ; 2,08 dan 1,50 kali.

Kata kunci : Arang kompos, mikoriza, arang bambu, cuka kayu, pertumbuhan