DAFTAR PUSTAKA

Bm, N. H., Lisnawati, L., & Pinem, M. I. (2018). Uji Metabolit *Trichoderma* Spp. Terhadap *Ganoderma* Sp.In Vitro. *Talenta Conference Series: Agricultural And Natural Resources (Anr)*, *1*(1), 11–15. Https://Doi.Org/10.32734/Anr.V1i1.89

Darini Chodijah, A. M. Dan S. (2008). Uji Antagonis *Trichoderma* Spp. Dalam Menekan Ganoderma Philippii Secara In Vitro. *Prosiding Seminar Nasional*, 44–55.

Dendang, B. (2015). In-Vitro Antagonism Experiment Of *Trichoderma* Spp. To *Ganoderma* Sp. Which Attacks Sengon Trees. *Jurnal Penelitian Kehutanan Wallacea*, *4*(2), 147. Https://Doi.Org/10.18330/Jwallacea.2015.Vol4iss2pp147-156

Erpi Nurdin, G. M. N. (2021). Perbandingan Variasi Media Alternatif Dengan Berbagai Sumber Karbohidrat Terhadap Pertumbuhan Candida Albicans. *Jurnal Bionature*, *21*(1), 1–5.

Fishal, E. M. M., Razak, I. B. A., Bohari, N. H., & Nasir, M. A. A. M. (2022). In Vitro Screening Of Endophytic *Trichoderma* Sp. Isolated From Oil Palm In Fgv Plantation Against Ganoderma Boninense. *Advances In Microbiology*, *12*(07), 443–457. Https://Doi.Org/10.4236/Aim.2022.127031

Haryadi, D., Hendra, H., Sidhu, M., Panjaitan, T., & Chong, K. P. (2021). Nursery Evaluation Of Potential Endophytic Trichoderma Spp. From North Sumatra, Indonesia As A Biocontrol Agent Against Ganoderma Boninense. *Indian Phytopathology*, *74*(3), 803–808. Https://Doi.Org/10.1007/S42360-021-00348-W

Intan Berlian, B. S. Dan H. H. (2013). Mekanisme Antagonisme *Trichoderma* Spp. Terhadap Beberapa Patogen Tular Tanah. *Warta Perkaretan*, 74–82.

Irawati, W. (2021). Praktikum Virtual Tentang Pembuatan Medium Potatoes Dextroxe Agar Secara Sederhana Dan Isolasi Jamur Pada Biji-Bijian. *Bio-Edu: Jurnal Pendidikan Biologi*, *6*(3), 289–299. Https://Doi.Org/10.32938/Jbe.V6i3.1341

Kubicek, C. P., Steindorff, A. S., Chenthamara, K., Manganiello, G., Henrissat, B., Zhang, J., Cai, F., Kopchinskiy, A. G., Kubicek, E. M., Kuo, A., Baroncelli, R., Sarrocco, S., Noronha, E. F., Vannacci, G., Shen, Q., Grigoriev, I. V., & Druzhinina, I. S. (2019). Evolution And Comparative Genomics Of The Most Common Trichoderma Species. *Bmc Genomics*, *20*(1), 1–24. Https://Doi.Org/10.1186/S12864-019-5680-7

Kusmawanto, A., Himawan, A., & Kristalisasi, E. N. (2022). Tes Antagonis Daritrichoderma Harzianummelawanganoderma Boninensepenyebab Penyakit Busuk Batang Basal Kelapa Sawit. *Journal Of Agriculture (Joa)*, 1–3. Https://Doi.Org/10.47709/Joa

M. Mukhlis Afandi*, S. F. S. Dan Lisnawita. (2017). Potensi *Trichoderma* Spp. Asal Rizosfer Tanaman Kelapa Sawit Sebagai Agens Antagonis Terhadap *Ganoderma* Sp. Secara In Vitro. *Jurnal Agroekoteknologi Fp Usu*, *05*(02), 469–473.

Rizky Alviodinasyari1, A. M. W. L. (2015). Pengendalian Ganoderma Boninense Oleh *Trichoderma* Sp. Sbj8 Pada Kecambah Dan Bibit Kelapa Sawit (Elaeis Guineensis Jacq.) Di Tanah Gambut. *Jom Fmipa*, *02*(01), 99–107.

Saragih, R., Simanjorang, M., Angrelina, I., Irvanto, D., Retnosari, E., Murgianto, F., & Ardianto, A. (2022). Exploration, Identification, And In Vitro Antagonism Test Of *Trichoderma* Spp. Against *Ganoderma* Spp. At Pt Bumitama Gunajaya Agro Palm Oil Plantation, Central Kalimantan. *Iop Conference Series: Earth And Environmental Science*, *976*(1). Https://Doi.Org/10.1088/1755-1315/976/1/012043

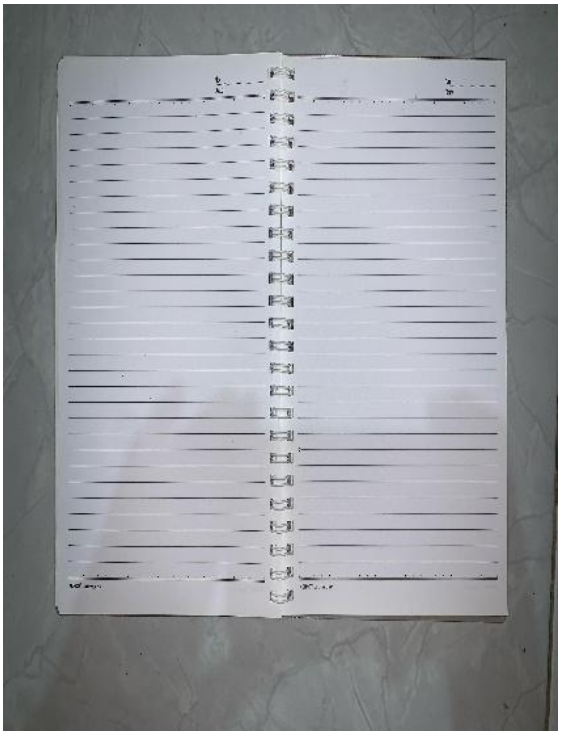
Sheina Revania Putri Doo, V. I. M. S. K. E. B. E. K. (2023). *Trichoderma* Spp., The Multi-Functional Fungus. *Tropical Microbiome Jurnal*, *01*(01), 73–89.

Sitohang, J. P., Putri, H. A., & Handini, A. S. (2022). Uji Antagonisme *Trichoderma* Sp Terhadap Penyakit Busuk Pangkal Batang (*Ganoderma* Sp) Yang Menyerang Tanaman Kelapa Sawit (Elaeis Guineensis Jacq) Secara In Vitro. *Jurnal Citra Widya*, *14*(3), 229–238.

Wicaksono, W., Rega Prilianti, K., Setiawan, H., Mimboro, P., Chung, M., Perkebunan, P. T., & Iv, N. (T.T.). *Metode Deteksi Cepat Serangan Ganoderma Pada Perkebunan Kelapa Sawit Dengan Penginderaan Jauh*. Https://Ojs.Unm.Ac.Id/Jessi/Index

Yohan Yogaswara*, R. S. S. R. Dan C. G. (2020). *Ability Test Of Trichoderma Spp. Isolate As Antagonist Of Ganoderma Boninense And Plant Growth Promoting Fungi (Pgpf)* (Vol. 8, Nomor 2).

LAMPIRAN



Lampiran 1. Persiapan buku catatan & Persiapan kamera ponsel

Lampiran 2. Persiapan gunting & kalkulator

Lampiran 3. Persiapan kertas label & sarung tangan

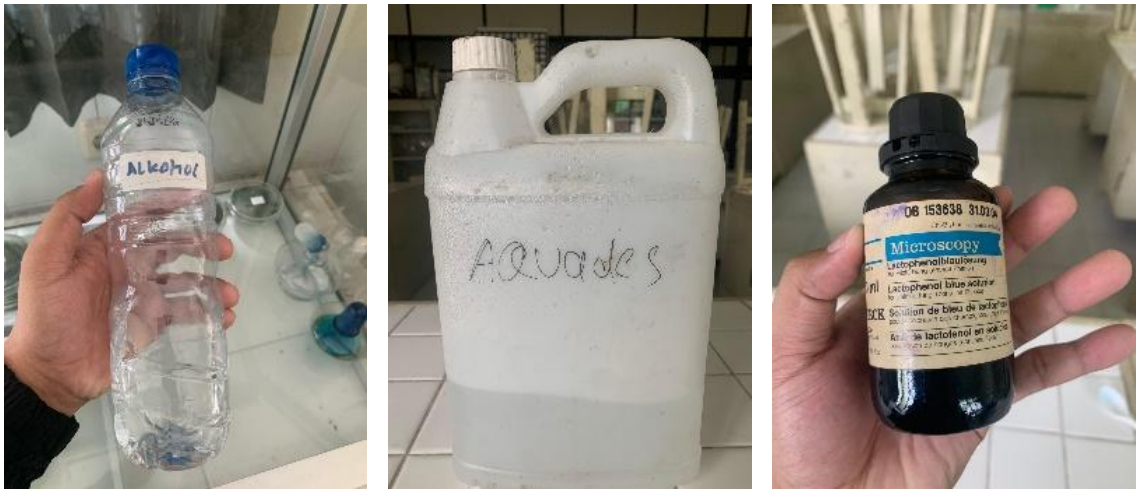

Lampiran 4. Persiapan Preparat, Gelas Beaker & inokulating loop (jarum N)

Lampiran 5. Persiapan Kertas pembungkus (HVS), autoclave & gelas ukur

Lampiran 6. Persiapan Spritus burner, alumunium foil & cawan petry

lampiran 7. Persiapan kompor (memanaskan bahan & media) & Laminar air flow

Lampiran 8. Persiapan mikroskop



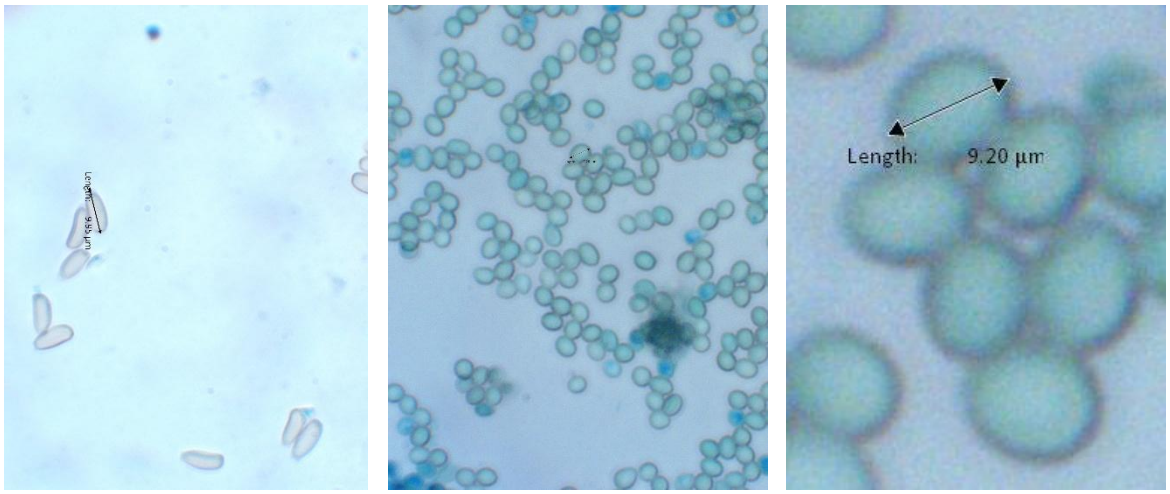
Lampiran 9. Persiapan alkohol, aquades & pewarna (lactophenol cotton blue)

Lampiran 10. persiapan Spritus, potato dextrose agar


Lampiran 11. Media PDA yang sudah jadi & Memasukan media PDA ke dalam L. Pendingin

Lampiran 12. Hasil biak *Trichoderma* sp. , Hasil biak *Ganoderma* Sp. & Hasil uji *Antagonis T* sp. & *G* sp.

Lampiran 13. Preparat (*Ganoderma* sp.), Preparat & kaca objek & tampak komputer hifa *G* sp.



Lampiran 14. Hasil penampakan mikrokopis *Ganoderma* sp, *Trichoderma* sp. & *Trichoderma* sp.