

Aktivitas antagonis isolat actinomycetes dari pesisir Pulau Pramuka, Kepulauan Seribu, DKI Jakarta terhadap isolat ganoderma dari Universitas Indonesia, Depok = Antagonistic activity of actinomycetes isolated from Pramuka Island coast, Kepulauan Seribu, DKI Jakarta against ganoderma isolated from Universitas Indonesia, Depok

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Abstrak

Telah dilakukan penelitian mengenai aktivitas antagonis 52 isolat actinomycetes terhadap 2 isolat Ganoderma TB3 dan TB4. Isolat actinomycetes tersebut berasal dari pesisir Pulau Pramuka, Kepulauan Seribu, DKI Jakarta. Isolat Ganoderma berasal dari hutan kota Wales Timur serta kawasan hijau seberang Stadion Universitas Indonesia, Depok. Penapisan aktivitas antagonis dilakukan dengan metode plug dan metode cross streak. Hasil penapisan diperoleh satu isolat actinomycetes SM 12 yang menghambat pertumbuhan kedua isolat Ganoderma. Uji lanjutan untuk mengetahui aktivitas antibiosis isolat SM 12 dilakukan dengan mencampurkan filtrat medium pertumbuhan SM 12 terhadap medium pertumbuhan Ganoderma TB3 dan TB4. Uji filtrat medium pertumbuhan pada hari ke-13 dan hari ke-16 inkubasi menunjukkan penghambatan pertumbuhan Ganoderma TB3 dan TB4. Sementara itu, aktivitas antagonis dalam medium serbuk gergaji (bag log) tidak menunjukkan adanya hambatan pertumbuhan Ganoderma TB3 dan TB4.

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Research about antagonistic activity of 52 isolates of actinomycetes against 2 isolates of Ganoderma TB3 and TB4 has been carried out. These actinomycetes were obtained from the of Pramuka Island Coast, Kepulauan Seribu, DKI Jakarta. Ganoderma isolates were obtained from Hutan Kota Wales Timur and green areas opposite Stadion Universitas Indonesia, Depok. Screening of antagonistic activity was carried out by plug method and cross streak method. The results of screening showed one actinomycetes isolate, SM 12, which able to inhibit two Ganoderma isolates. Further test to determine the antibiosis activity of SM 12 was carried out by mixing the growth filtrate of SM 12 on the growth media of Ganoderma TB3 and TB4. The test of the growth filtrate after 13 and 16 days of incubation showed inhibition of the growth of Ganoderma TB3 and TB4. Meanwhile, the antagonistic activity test on the sawdust media (bag log) did not show any inhibition of the growth of Ganoderma TB3 and TB4.