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Isolation, Identification and Screening of Antimicrobial Activity Streptomyces sp. Lapindo Sidoarjo Mud Soil Isolates

Isolasi, Identifikasi dan Penapisan Aktivitas Antimikroba Streptomyces sp. Isolat Tanah Lumpur Sidoarjo

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Abstract

This study aims to identify the streptomyces sp. isolated from soil of the Lapindo mudflow in Sidoarjo based on its morphology comparing the growth profile of streptomyces sp. soil isolates Lapindo mudflow in Sidoarjo and see the antimicrobial activity of streptomyces sp. against staphilococcus aureus ATCC 6538, Escherichia coli ATCC 8739, bacillus subtilis ATCC 6633 and candida albicans 10231. For samples of mud taken from point A with radius of 200 m from the center of mudflow, point B with radius of 500 m from the center of mudflow, point C with radius of 1 km from the center of the mudflow and point D is sludged disposal area Porong to gts streptomyces sp. isolates. the streptomyces sp. isolates morphology had been observed, the dry weight of the cell measure to determine the growth curve profile and conducted screening antimicrobial activity against staphilococcus aureus ATCC 6538, Escherichia coli ATCC 8739, bacillus subtilis ATCC 6633 and candida albicans 10231. This research obtained 8 streptomyces sp. isolates, namely streptomyces D1, D2, D4, D6, D7.1, D7.2, D9 AND D12 isolated from Point D. Each of these isolates have different characteristics in terms of colony morphology, growth profile and antimicrobial potential against staphilococcus aureus ATCC 6538, Escherichia coli ATCC 8739, bacillus subtilis ATCC 6633, and candida albicans ATCC 10231.

Keyword: streptomyces, sp., Lapindo, Sidoarjo, mudflow, Antimicrobial, activity

Daftar Pustaka: