UJI AKTIVITAS ANTIBAKTERI *Streptomyces* sp.-1 DAN *Streptomyces* sp.-2 ISOLAT TANAH EKOSISTEM MANGROVE PANTAI TIMUR SURABAYA TERHADAP *Mycobacterium tuberculosis*

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**ABSTRACT**

Antibacterial activity test of *Streptomyces* sp.-1 and *Streptomyces* sp.-2 isolated from East coast of Surabaya mangrove ecosystems soil against *Mycobacterium tuberculosis* H37Rv. This research has done in vitro using diffusion modifications Agar plates method to know antibiotic production of *Streptomyces* sp. against *M.tuberculosis* H37Rv by the formation of diameter inhibition zone around the colonies of *M.tuberculosis* H37Rv. The activity test has done by sticking a printout of Agar plates inoculated by *Streptomyces* sp. on the media that has been inoculated by *M.tuberculosis* H37Rv, then incubated at 37°C for 3-5 weeks. Positive results are indicated by clear zone produced by *Streptomyces* sp. around *M.tuberculosis* H37Rv colonies on the petri dish it means that the isolates of *Streptomyces* sp. can produce antibiotic to inhibit the growth of *M.tuberculosis* H37Rv. Results showed that *Streptomyces* sp.-1 isolated from East coast of Surabaya mangrove ecosystems soil is potential in producing antibiotic because it showed a result inhibiting the grown of *M.tuberculosis* H37Rv that marked with no growth of *M.tuberculosis* H37Rv on Petri dish. *Streptomyces* sp.-2 isolated from East coast of Surabaya mangrove ecosystems soil can inhibit the growth of *M.tuberculosis* H37Rv that marked with the formation of inhibition zone around *M.tuberculosis* H37Rv colonies on petri dish cultures of 18.9 mm.

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