

INTISARI

Telah dilakukan isolasi dan identifikasi bakteri tanah dari Lokasi Daur Ulang Sampah Tambak Boyo, Kabupaten Sleman yang mempunyai potensi antifungus terhadap *Candida albicans*.

Isolasi dilakukan dengan cara memisahkan koloni bakteri tanah yang dapat menghambat pertumbuhan *Canida albicans* dan menumbuhkan koloni bakteri tanah tersebut di medium *nutrien agar*. Selanjutnya dilakukan uji potensi antifungus terhadap *Candida albicans*. Potensi antifungus diamati dengan mengukur diameter zona hambat yang terbentuk disekitar *paper disc*. Identifikasi dilakukan dengan cara mengamati morfologi koloni, morfologi sel dan uji biokimia. Penelitian ini merupakan eksperimen murni, bersifat deskriptif eksploratif.

Hasil menunjukkan bahwa isolat bakteri dari Lokasi Daur Ulang Sampah Tambak Boyo Kabupaten Sleman yang mempunyai potensi antifungus terhadap *Candida albicans*, diduga merupakan genus *Propionibacterium*.

Kata kunci: Bakteri tanah, *Candida albicans*, *Propionibacterium*, potensi antifungus, Lokasi Daur Ulang Sampah Tambak Boyo, Kabupaten Sleman, Yogyakarta.

ABSTRACT

Isolation and identification of soil bacteria from Dumping Area of Tambak Boyo, District of Sleman, Yogyakarta having antifungus potency against *Candida albicans* has been conducted.

The isolation was conducted by separating the colony of soil bacteria capable to inhibit the growth of *Candida albicans* and grow the colony of soil bacteria in *nutrien agar* medium. Latter its antifungus potency against *Candida albicans* was tested. Antifungus potency was observed by measuring the diameter of inhibition zones which was formed surround the *paper disc*. Identification was conducted by observing the morfology of colony, morfology of cell and biochemical test. This research was pure experimental and descriptive exploratif.

The result showed that the bacteria isolated from Dumping Area of Tambak Boyo, District of Sleman, Yogyakarta having antifungus potency against *Candida albicans* might be *Propionibacterium*.

Keywords: Soil bacteria, *Candida albicans*, *Propionibacterium*, antifungus potency, Dumping Area of Tambak Boyo, District of Sleman, Yogyakarta