

## Optimalisasi biotransformasi total sterol limbah tahu menggunakan *Mycobacterium phlei* DSM 43286 menjadi 1,4-androstadien-3, 17-dion, dengan pengaruh variasi konsentrasi inhibitor A, A' - dipiridil

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### Abstrak

*Isolation of total sterol from waste product of soy bean cake has been conducted, followed by biotransformation to 1,4-androstadien-3,17-dione (ADD). The waste product consist of; sitosterol, stigmasterol, kaemfesterol, which are isolated by column chromatography technique using silica gel as stationary phase and chloroform as mobile phase. Biotransformation was conducted by using *Mycobacterium phlei* DSM 43286 in the present of, 2-pyridyl dipiridil as an inhibitor with concentration of 0,5; 1; 1,5; 2,0 mM. The main product of biotransformation were ADD and pregnenolon. The optimum yield of ADD 0,48% is achieved by adding 1,5 mM 2-pyridyl dipiridil are two hours after addition of substrate and 72 hours of incubation time.*