

Bioprospect of Lovastatin in *Aspergillus* spp. from University of Indonesia Culture Collection (UICC)

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20280618&lokasi=lokal>

Abstrak

The aim of this research is to select and analyse lovastatin from isolated molds of *Aspergillus* spp. from University of Indonesia Culture Collection (UICC). Lovastatin is an inhibitor 3 hydroxy-3-methylglutaryl-coenzyme-A reductase (HMG-CoA reductase) enzyme and a competitive inhibitor of the biosynthesis of cholesterol. The result revealed that out of 40 cultures, 18 cultures (45%) produced lovastatin and 22 cultures (55%) were negative. *Aspergillus flavus* UICC 360 showed the biggest lovastatin production compared to a number of selected cultures. Thin Layer Chromatography (TLC) analysis showed an amount of *Aspergillus* with same similarities of Rf value compared to the standard High Performance Chromatography (HPLC) analysis which confirmed that lovastatin *Aspergillus flavus* UICC 360 has the same retention time with the standard (13.2) minutes.