Microbial Transformation of a Mixture of Argentatin A and Incanilin

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The biotransformation of a mixture of argentatin A (20%) \textsuperscript{1} and incanilin (80%) \textsuperscript{2} by \textit{Gibberella suabinetti} ATCC 20193 and \textit{Septomyxa affinis} ATCC 6737 demonstrated the conversion of incanilin to 16β,2-hydroxylanosta-2,8,23-triene, while argentatin A did not react. The acetate of this triterpenoid mixture was biotransformed by \textit{Septomyxa affinis} ATCC 6737 to give five metabolites. Argentatin A acetate was transformed to 3β,16β,30-trihydroxy-cycloart-20, 24-diene, 20R, 24R-epoxy-16β, 25-dihydroxy-3, 4-seco-cycloart-4(28)-en-3-oic acid acetate and 20R, 24R-epoxy-16β, 25-dihydroxy-3, 4-seco-cycloart-4(28)-en-3-oic acid. Incanilin acetate was converted to 16β-hydroxylanosta-2, 8, 23-triene and 20R, 24R-epoxy-16β, 25-dihydroxy-3, 4-seco-lanost-1, 4,8-trien-3-oic acid acetate. The structural elucidations of these metabolites were achieved by different spectroscopic methods.