

Synthesis and Fungicidal Activity of Lipophylic N- and O-Acyl Derivatives of β -Hydroxy DL- α -Amino Acids

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Synthesis of N- and O-acyl derivatives of DL-serine and threo-DL-phenylserine was accomplished by a regioselective acylation of the corresponding amino acid. The residues introduced into amino acid structure contain hydrophobic long chain or aromatic, namely lauroyl, myristoyl and phenylacetyl moieties. The fungicidal activity against six strains of fungi was studied. Several compounds were found to be effective against growth of fungi, and O-myristoyl-DL-serine **2** and N-phenylacetyl-threo-DL-phenylserine **8** completely inhibited the growth of the mycelium of the fungus *Verticillium dahliae*.

Key words: DL-(phenyl)Serines, N- and O-Acylation, Fungicidal Activity