

Production of Wax Esters

Abstract

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Wax esters are prepared by reacting a solution of palm oil in an organic solvent with oleyl alcohol in the presence of an immobilized lipase wherein molar ratio of palm oil to oleyl alcohol is between 1:2 and 1:4. Immobilized lipase used is present in an amount which is equivalent to not less than 10 1000 μg of protein per milli-mole of palm oil used and the reaction is carried out at 40°C to 50°C for a period of not less than 5 hours. The organic solvent used has a value of log P not less than 3.5.

15 Figure for the purpose of publication: Figure 5

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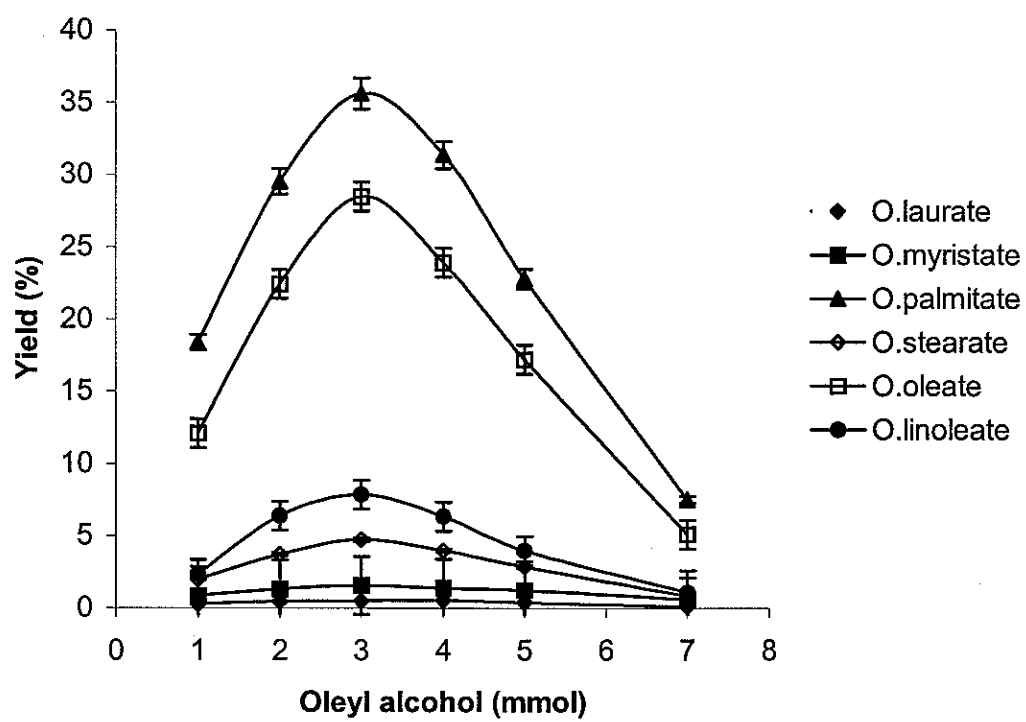


Figure 5

Effect of molar ratio of substrate on the percentage yield of wax esters