#### RESEARCH NOTES

表面活性剂包衣Candida rugosa脂肪酶在异辛烷中的稳定性

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摘要 The stability of Candida rugosa lipase coated with glutamic acid didodecyl ester ribitol amide was investigated taking esterification of lauryl alcohol and lauric acid in isooctane as a model reaction. At  $30^{\circ}$ C, the half-life of the activity of the coated lipase was ca 10 h, the enzyme activity became less changed after 12 h and the residual activity was 39% of the initial value. The coated lipase obeyed a first-order deactivation model with a deactivation energy of 29.9 J.mol-1.

关键词 <u>activity Candida rugosa lipase</u> <u>organic solvent stability surfactant</u> 分类号

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## Stability of Surfactant-coated Candida Rugosa Lipase in Isooctane

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**Abstract** The stability of Candida rugosa lipase coated with glutamic acid didodecyl ester ribitol amide was investigated taking esterification of lauryl alcohol and lauric acid in isooctane as a model reaction. At  $30^{\circ}$ C, the half-life of the activity of the coated lipase was ca 10 h, the enzyme activity became less changed after 12 h and the residual activity was 39% of the initial value. The coated lipase obeyed a first-order deactivation model with a deactivation energy of 29.9 J.mol-1.

**Key words** <u>activity; Candida rugosa; lipase; organic solvent; stability; surfactant</u>

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