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Biodiesel production from crude Jatropha oil catalyzed by non-commercial immobilized heterologous *Rhizopus oryzae* and *Carica papaya* lipases

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1 **Biodiesel production from crude Jatropha oil catalyzed by non-**
2 **commercial immobilized heterologous *Rhizopus oryzae* and *Carica***
3 ***papaya* lipases**

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19 Abstract

20 The aim of this study was to evaluate the feasibility of biodiesel production by
21 transesterification of Jatropha oil with methanol, catalyzed by non-commercial
22 *sn*-1,3-regioselective lipases. Using these lipases, fatty acid methyl esters
23 (FAME) and monoacylglycerols are produced, avoiding the formation of glycerol

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