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PII: S0141-8130(18)33913-8
DOI: doi:10.1016/j.ijbiomac.2018.08.155
Reference: BIOMAC 10399

To appear in: *International Journal of Biological Macromolecules*

Received date: 28 July 2018
Revised date: 22 August 2018
Accepted date: 26 August 2018

Please cite this article as: Yue Li, Nanjing Zhong, Ling-Zhi Cheong, Jianrong Huang, Hongxiao Chen, Shaoyan Lin , Immobilization of Candida antarctica Lipase B onto organically-modified SBA-15 for efficient production of soybean-based mono and diacylglycerols. Biomac (2018), doi:10.1016/j.ijbiomac.2018.08.155

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Abbreviations: XRD, X-ray diffraction; **FT-IR,** Fourier transform infrared; **CALB,** *Candida antarctica* lipase B; **DAG,** diacylglycerols; **TAG,** triacylglycerols; **MAG,** monoacylglycerols; **IE,** immobilization efficiency; **XPS,** X-ray photoelectron spectroscopy