

Supporting Information for:

One pot three-component reaction for covalent immobilization of enzymes: Application of immobilized lipases for kinetic resolution of *rac*-ibuprofen

Mehdi Mohammadi^{*a}, Somayyeh Gandomkar^b, Zohreh Habibi^{**b}, Maryam Yousefi^c

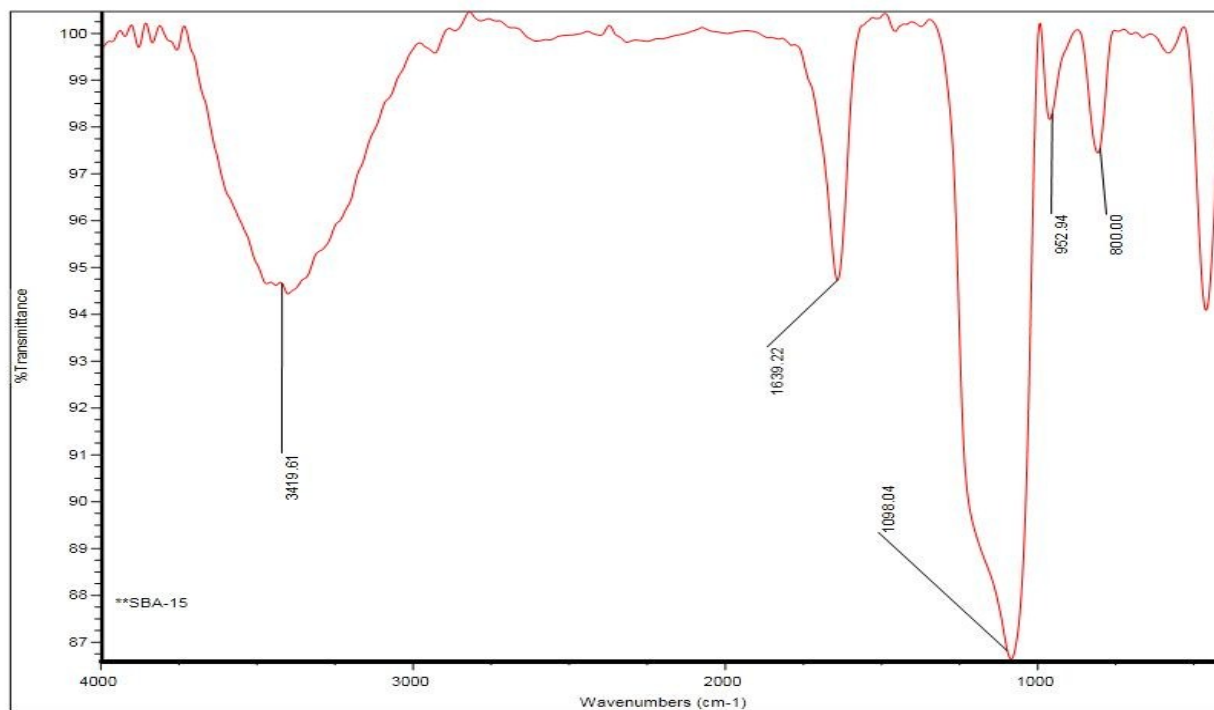
^aBioprocess Engineering Department, Institute of Industrial and Environmental Biotechnology, National Institute of Genetic Engineering and Biotechnology (NIGEB), P.O.Box:14965/161 Tehran, Iran.

^bDepartment of Pure Chemistry, Faculty of Chemistry, Shahid Beheshti University, G.C., Tehran, Iran

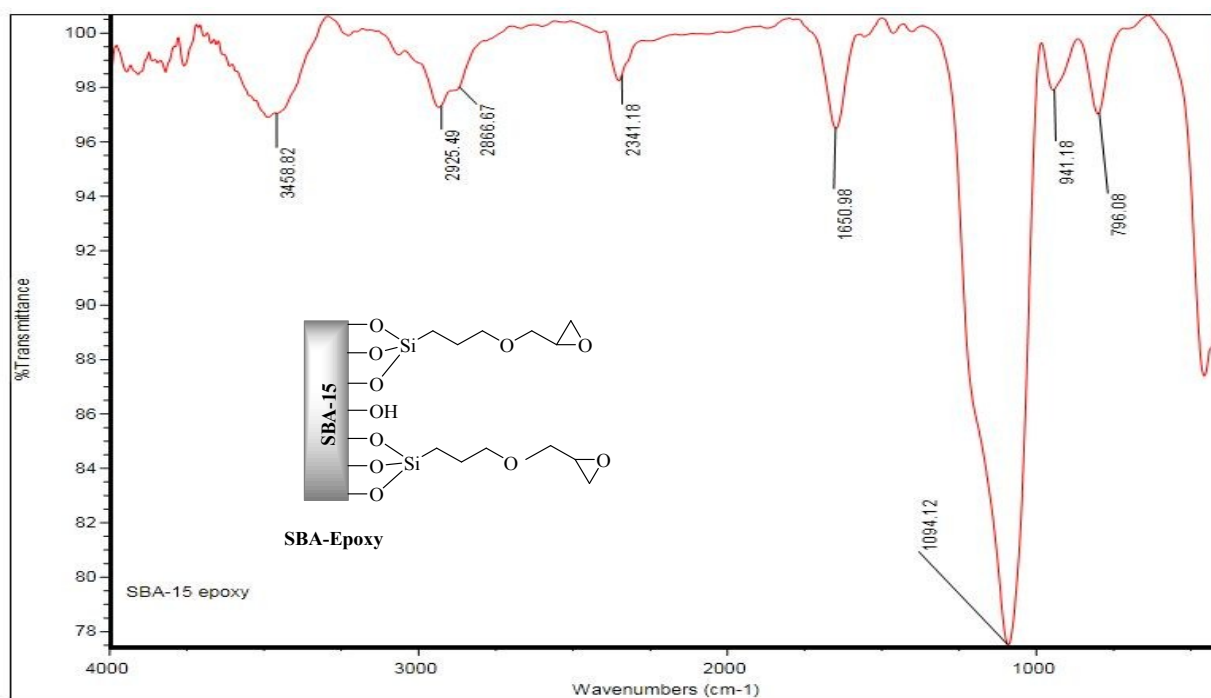
^cNanobiotechnology Research Center, Avicenna Research Institute, ACECR, Tehran, Iran

Characterization of the supports

Figure S1. FT-IR spectrum of SBA-15 (a), FT-IR spectrum of SBA-epoxy (b)

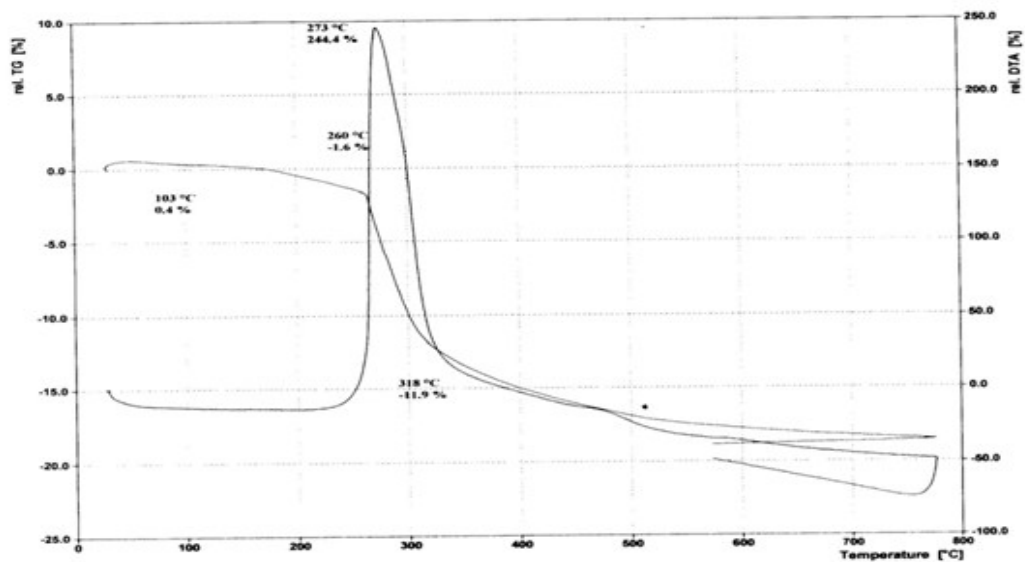


a الف

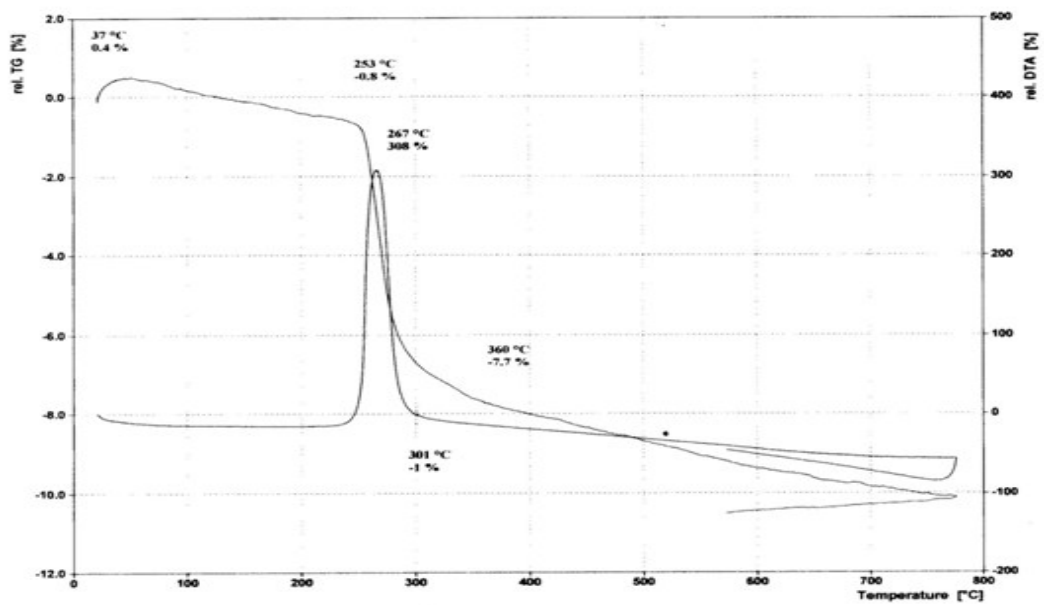


b

Figure S2. TG analysis of a) SBA-epoxy b) Silica-epoxy

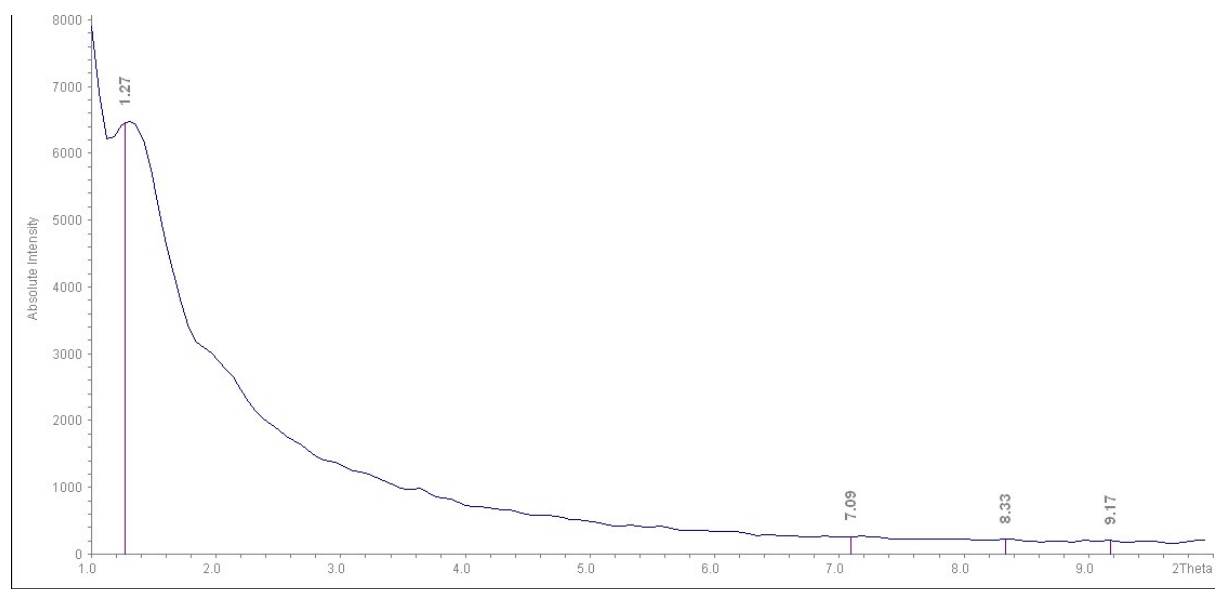


a

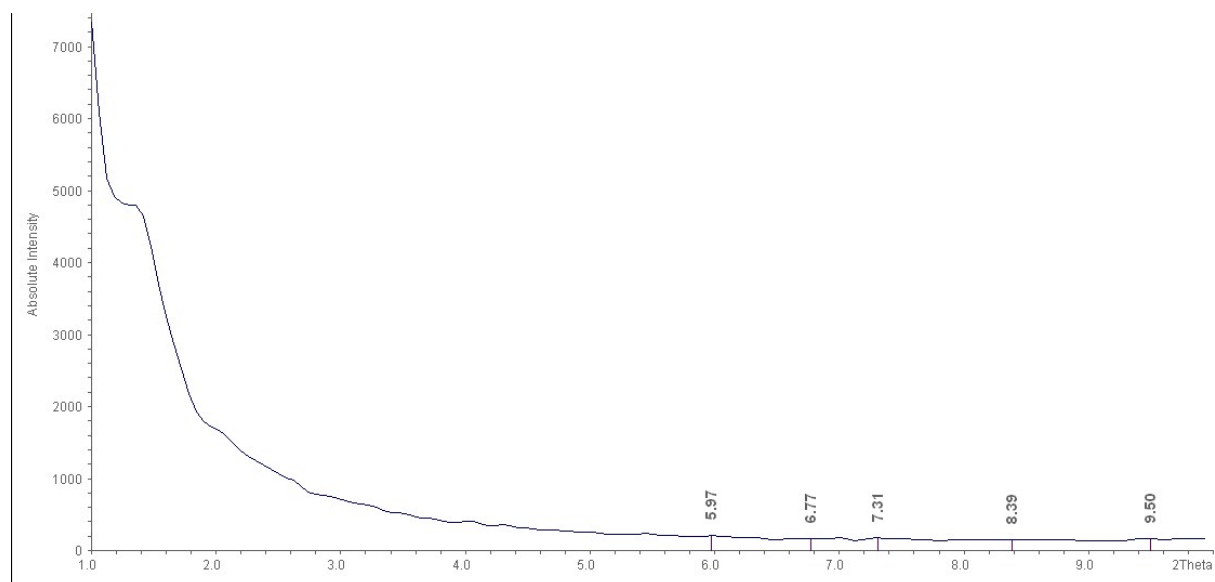


b

Figure S3. XRD patterns of SBA-15 before (a) and after functionalization (b).



a



b