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Magnetic molecularly imprinted polymer for the selective extraction of hesperetin from the dried pericarp of *Citrus reticulata* Blanco

Dan-Dan Wang^a, Die Gao^b, Wan-Jun Xu^a, Fan Li^a, Man-Ni Yin^a, Qi-Feng Fu^b,

Zhi-Ning Xia^{a,*}

^aSchool of Pharmaceutical Sciences, Chongqing University, Chongqing, 401331, China

^bSchool of Pharmacy, Southwest Medical University, Luzhou, Sichuan, 646000, China

* Correspondence to: Prof Zhi-Ning Xia, School of Pharmaceutical Sciences, Chongqing University, Chongqing, 401331, P.R. China. Phone/fax: 86 23 6510 6615. cm_anal_cqu@163.com.

Abstract

In present study, novel magnetic molecularly imprinted polymers for hesperetin were successfully prepared by surface molecular imprinting method using functionalized Fe₃O₄ particles as the magnetic cores. Hesperetin as the template, N-Isopropylacrylamide as the functional monomer, ethylene glycol dimethyl acrylate as the crosslinker, 2,2-azobisisobutyronitrile as initiator and acetonitrile-methanol (3:1, v/v) as the porogen were applied in the preparation process. Fourier transform infrared spectroscopy, scanning electron microscopy, transmission electron microscope, x-ray diffraction and vibrating sample magnetometry were applied to

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