

Enzymatic preparation of L-malate in a reaction system with product separation and enzyme recycling

Guosi Li ^{1,*}, Fucheng Zhu ¹, Fangli Gu ¹, Xinjian Yin ², Qilin Xu ¹, Menghua Ma ¹, Li Zhu ³, Baowei Lu ¹ and Naidong Chen ^{1,*}

¹ Anhui Engineering Laboratory for Conservation and Sustainable Utilization of Traditional Chinese Medicine Resources, Department of Biological and Pharmaceutical Engineering, West Anhui University, Lu'an 237012, Anhui, China; 02000138@wxc.edu.cn (F.Z.); 02000093@wxc.edu.cn (F.G.); 02000171@wxc.edu.cn (B.L.); 02000181@wxc.edu.cn (Q.X.); 02000174@wxc.edu.cn (M.M.)

² School of Marine Science, Sun Yat-sen University, Zhuhai 519080, China; yinxj5@mail.sysu.edu.cn (X.Y.)

³ Key Laboratory of Biomass Chemical Engineering of Ministry of Education, College of Chemical and Biological Engineering, Zhejiang University, Hangzhou 310027, China; 11628066@zju.edu.cn

* Correspondence: 02000159@wxc.edu.cn (G.L.); hsjx@wxc.edu.cn (N.C.)

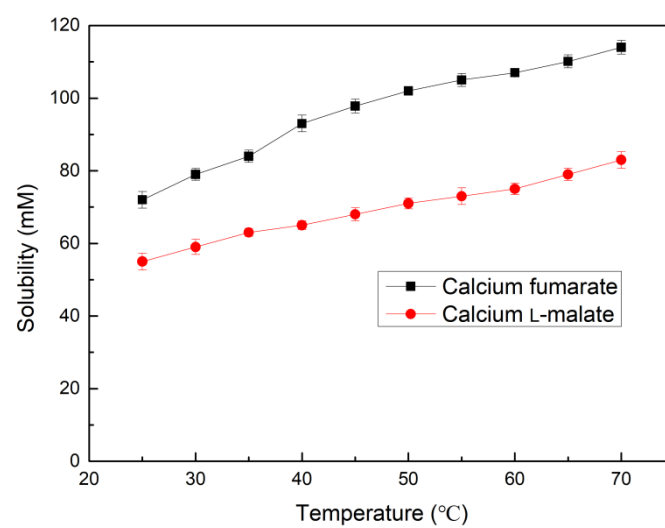


Figure S1. Solubility of calcium fumarate and calcium L-malate at different temperatures.