Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B. This journal is © The Royal Society of Chemistry 2015

Supplementary Information

Water-compatible surface-imprinted microspheres for high adsorption and selective recognition of peptide drug from aqueous media

Chunbao Du,* Xiaoling Hu, Ping Guan, Longxia Guo, Liwei Qian, Renyuan Song, Ji Li and Chaoli Wang

Table S1 Recipe for the synthesis of imprinted microspheres (the obtained microspheres with different monomers or cross–linkers are marked)

Experimental conditions		MIMs ¹	MIMs ²	MIMs ³	MIMs*	NIMs*
Monomer (mmol)	AM	0	0	0	1	1
Cross–linker (mmol)	EGDMA	2	0	0	0	0
	MBA	0	2	0	0	0
	[AVIM]Cl	0	0	2	4	4

Table S2 Swelling behaviour of the microspheres

Microspheres	Monomers used in polymerization	SR (%) °
P(PEDMA-VI) a	PEGDMA: VI: EGDMA = 2: 1: 0.5	20
PEGMA–VI ^b	PEGMA: VI: EGDMA = 2: 1: 0.5	150

^a The microspheres prepared in this work; ^b The microspheres prepared in the work of Uğuzdoğan et al.³⁵; ^c Equilibrium SR was obtained after approximately 15–20 min.

Table S3 Surface atomic compositions of the support microspheres from the XPS survey spectra

C1-	Elemental atomic composition (atomic %)					
Sample -	С	О	N	Cl		
P(PEGDMA–VI)	68.50	25.78	5.81	0		
P(PEGDMA-VI)@IL(1)	74.63	21.30	3.94	0.13		
P(PEGDMA-VI)@IL(2)	75.47	21.05	3.33	0.15		
P(PEGDMA-VI)@IL(3)	75.12	21.28	3.40	0.20		
P(PEGDMA-VI)@IL(4)	75.43	20.98	3.36	0.23		