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Synthesis and absorption performance of core-shell magnetic polymers for solid phase extraction and detection of glibenclamide in hypoglycemic health products

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Fig S1 The standard curve of glibenclamide

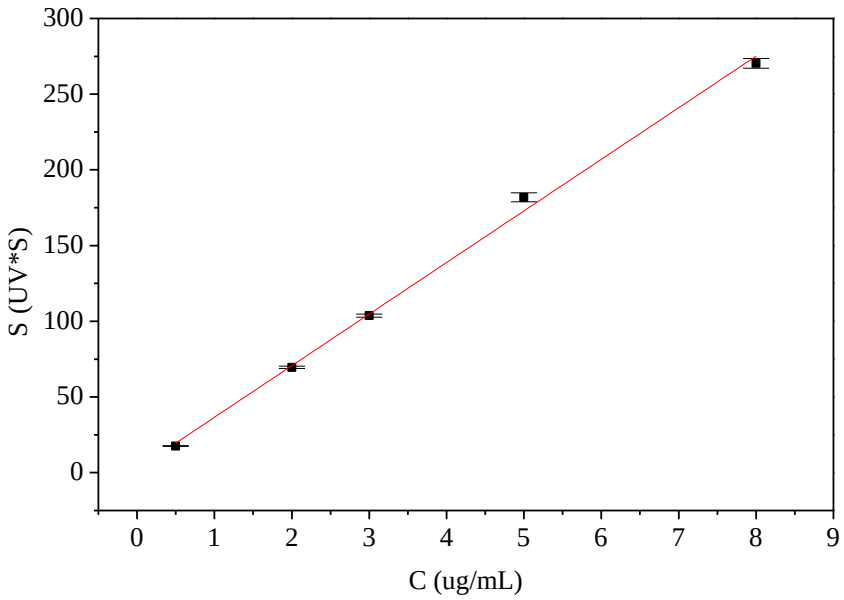

Fig S2 Adsorption-elution times of glibenclamide bound to MGTP Ⅱ

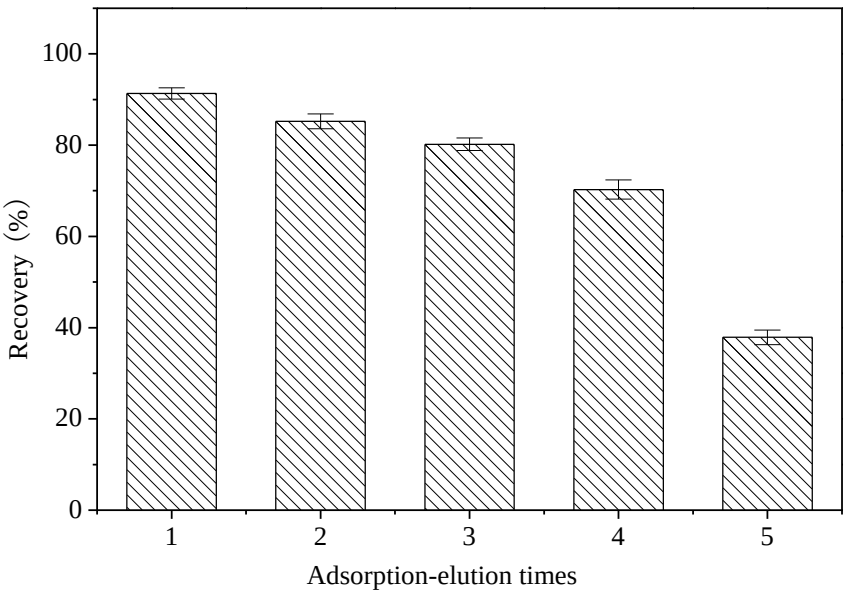

Table S1 Comparison with other materials

NO.	Materials	Reaction type	Reaction time(h)	Adsorption capacities(mg/g)	Adsorption equilibrium time(h)	Reference
1	Gb-sMIPs(G0)	surface polymerization	36	42.15	1/3	Wang RY, Wang Y, Xue C, Wen TT, Wu JH, Hong JL, Zhou XM, J Sep Sci 36:1015-1021 (2013).
2	Gb-sNIPs(G0)	surface polymerization	36	24.64	1/3	
3	Gb-sMIPs(G1)	surface polymerization	36	49.52	1/3	
4	Gb-sNIPs(G1)	surface polymerization	36	25.31	1/3	
5	MIP	surface polymerization	24	≈45	24	Lahsini R, Louhaichi MR, Adhoum N and Monser L, Acta Pharmaceut 63:265-275 (2013).
6	NIP	surface polymerization	24	≈12	24	
7	MGTP Ⅱ	surface polymerization	12	33.27	1/2	Manuscript method

Table S2 LOD of different methods

Method	Linear range(μg/mL)	LOD(μg/mL)	RSD(%）	Reference
HPLC-SPE	0.2-20.0	0.1	≤6.5	ZHOU CY, TANG BB, XI CX, CHENG DD, ZHANG L, PENG T, WANG GM, CHEN ZQ, J Instrumental Anal(Chinese), 2013, 32(10): 1212-1216.
RP-IPC-DAD	2.02-80.8	0.51	≤2.8	CUI M, LI N, QIN F, LI FM, XIONG ZL, Chromatographia, 2010, 72(11-12):1189-1194
HPLC-MS/MS	-	0.1-0.3	≤9.8	ZHU DM, CHEN DD, MA W, PENG T, LI XJ, LI L, DAI HH,TANG Z, Chinese J Anal Chem, 2011, 39(2):213-218
RP-IPLC	100-300	0.08	＜0.6	Rao BU, Nikalje AP, J Anal Bioanal Tech, 2010, 1:1-5.
HPLC-MIP-SPE	-	0.04	-	Lahsini R, Louhaichi MR, Adhoum N and Monser L, Acta Pharmaceut 63:265-275 (2013).
Manuscript method	0.5-8	0.05	≤1.97	-