

Novel Ti^{4+} -chelated magnetic nanostructured affinity microspheres containing N-methylene phosphonic chitosan for highly selective enrichment and rapid separation of phosphopeptides

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Supporting Information

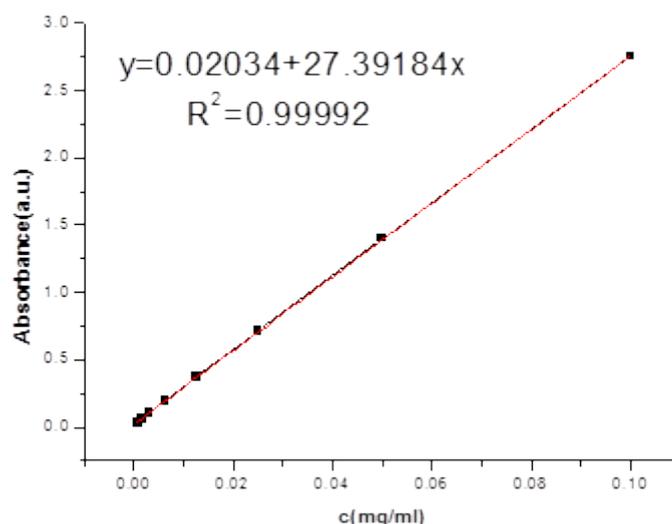


Fig. S1. The standard curve and the fitted standard equation of p-Nitrophenyl disodium orthophosphate (PNPP) using 311 nm as detecting wavelength.

Table S1. List of phosphopeptides enriched by MPCs-Ti⁴⁺ microspheres from the tryptic digest of β -casein.

No.	MH⁺	Peptide sequence	Phosphorylation site
β1	2061.8	FQ[pS]EEQQQTEDELQDK	1
β2	2556.0	FQ[pS]EEQQQTEDELQDKIHPF	1
β3	3122.2	RELEELNVPGEIVE[pS]L[pS][pS][pS]EESITR	4

[pS], phosphorylated site

Table S2. List of endogenous phosphopeptides enriched by MPCs-Ti⁴⁺ microspheres from human serum.

No	MH⁺	Peptide sequence	Number of phosphorylation
HS1	1389.6	D[pS]GEGDFLAEGGGV	1
HS2	1460.3	AD[pS]GEGDFLAEGGGV	1
HS3	1545.7	D[pS]GEGDFLAEGGGVR	1
HS4	1616.8	AD[pS]GEGDFLAEGGGVR	1

[pS], phosphorylated site