

1 **Supplementary Information**

2 **Chitosan Grafted onto Fe₃O₄@poly(N-Vinylcaprolactam) as New Sorbent for Detection**

3 **Imatinib mesylate in Biosamples Using UPLC-MS/MS**

4 Hamed Sahebi ^a, Seied Mahdi Pourmortazavi ^{*b}, Hamed Zandavar ^b, Somayeh Mirsadeghi ^{*c}

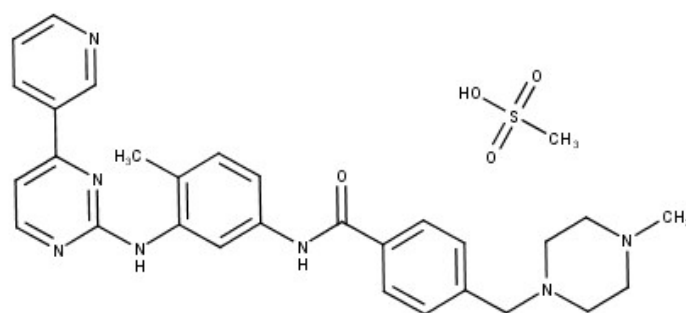
* Address correspondence to: P.O. Box 1411713137, Tehran, Iran, Somayeh Mirsadeghi; Email address: sshmirsadeghi@sina.tums.ac.ir,
Seied Mahdi Pourmortazavi: (pourmortazavi@mut.ac.ir/ pourmortazavi@yahoo.com)

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^aDepartment of Chemistry, Faculty of Science, Islamic Azad University Central Tehran Branch,
Tehran, Iran

^bFaculty of Chemistry and Chemical Engineering, Malek Ashtar University of Technology, Tehran, Iran

^cEndocrinology and Metabolism Research Center, Endocrinology and Metabolism Clinical Sciences Institute,
Tehran University of Medical Sciences, 1411713137, Tehran, Iran



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Fig. S1 Structure of IMM.

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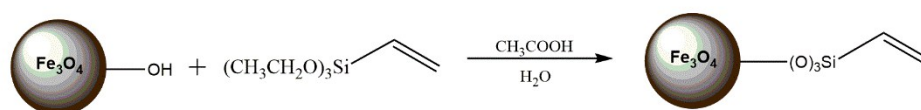
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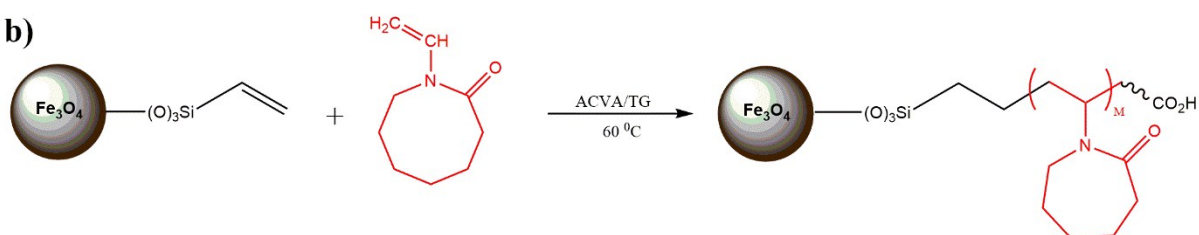
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42 **Fig. S2** a) Schematic pathway for synthesis of Fe₃O₄ NPs coated VTMS; b) Synthesis of
43 Fe₃O₄ @PNVCL-COOH NPs.

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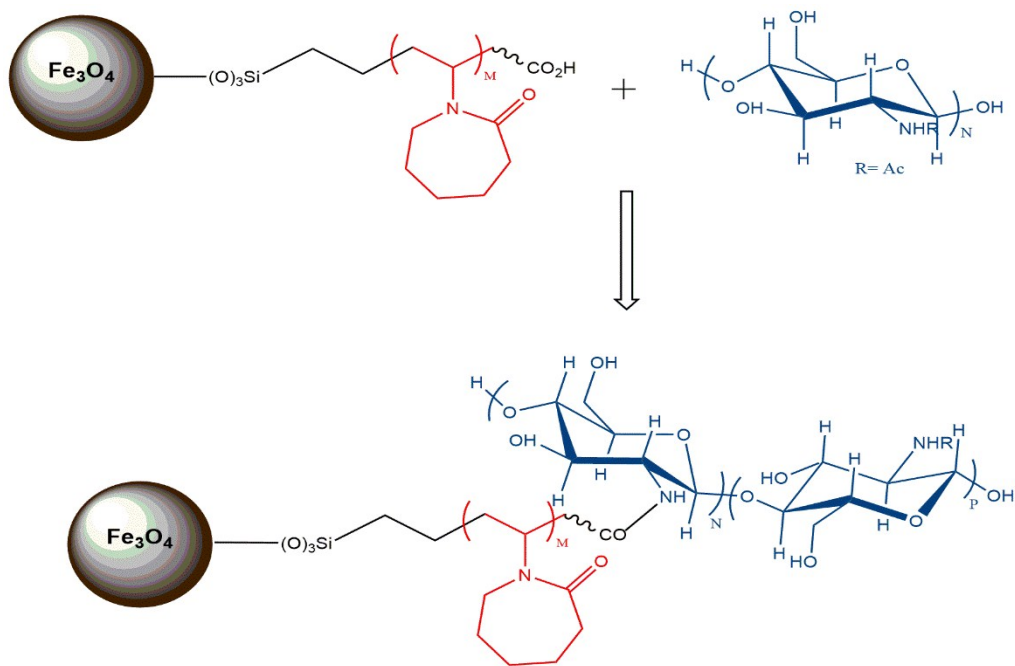
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56 **Fig. S3** Schematic pathway synthesis of chitosan-grafted onto Fe_3O_4 @PNVCL-COOH NPs.

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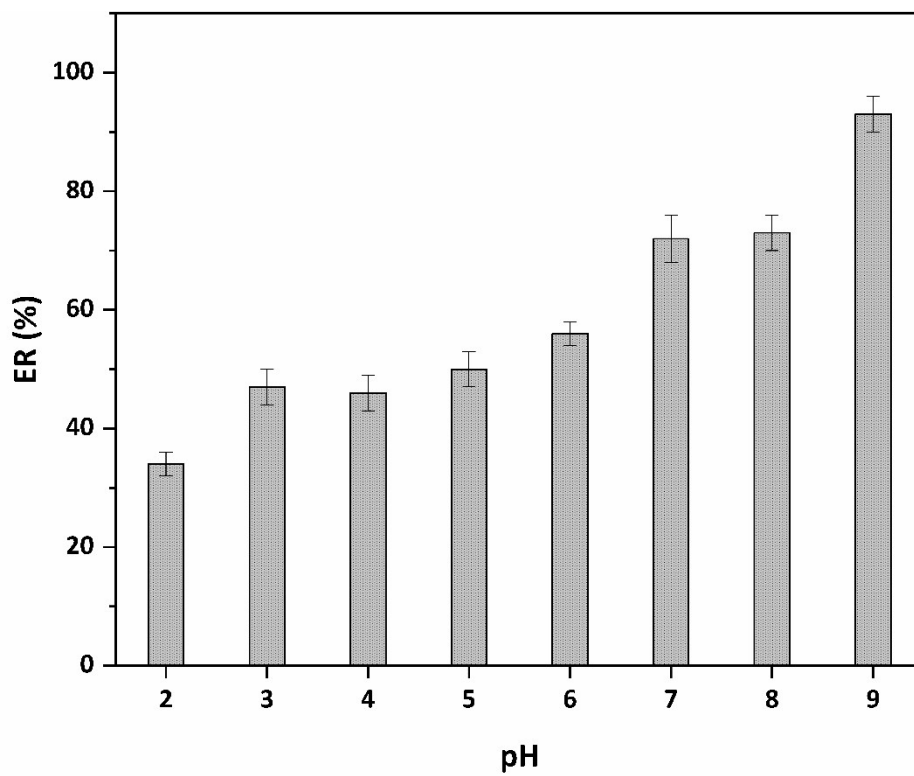
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Fig. S4 Effect of pH values on ER.

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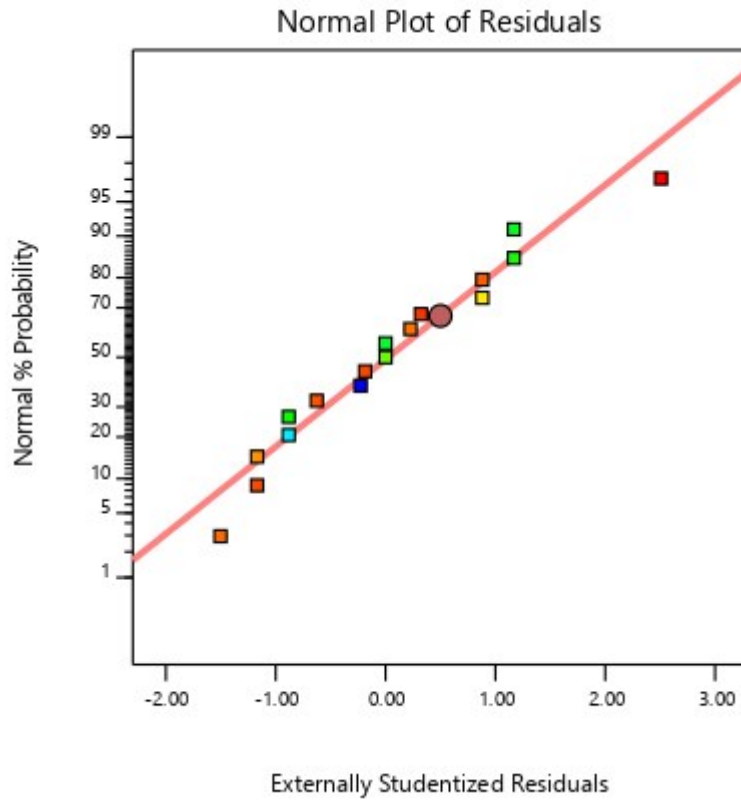
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Fig. S5 Normal probability plot.

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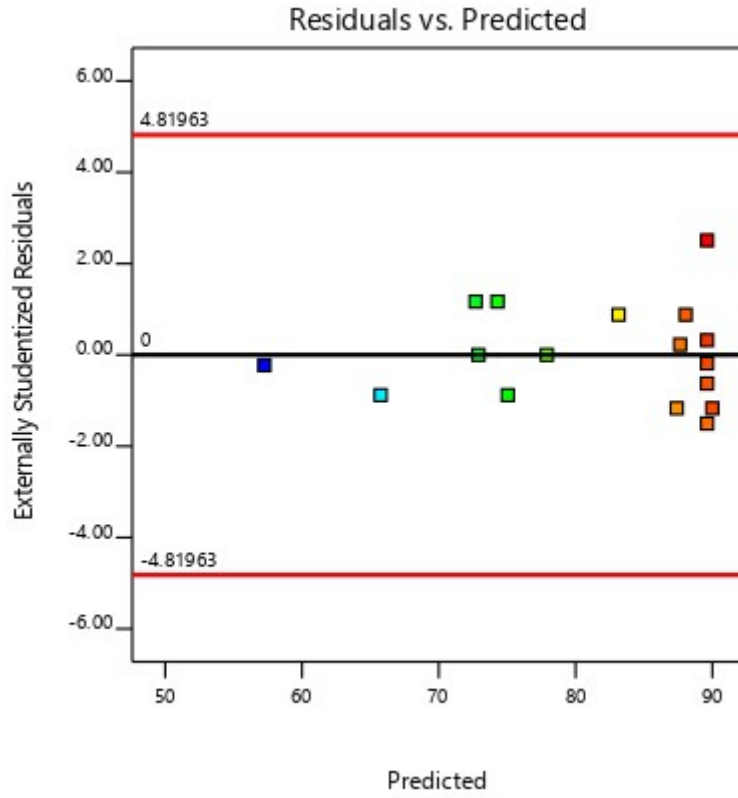
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Fig.S6 The plot of studentized residuals.

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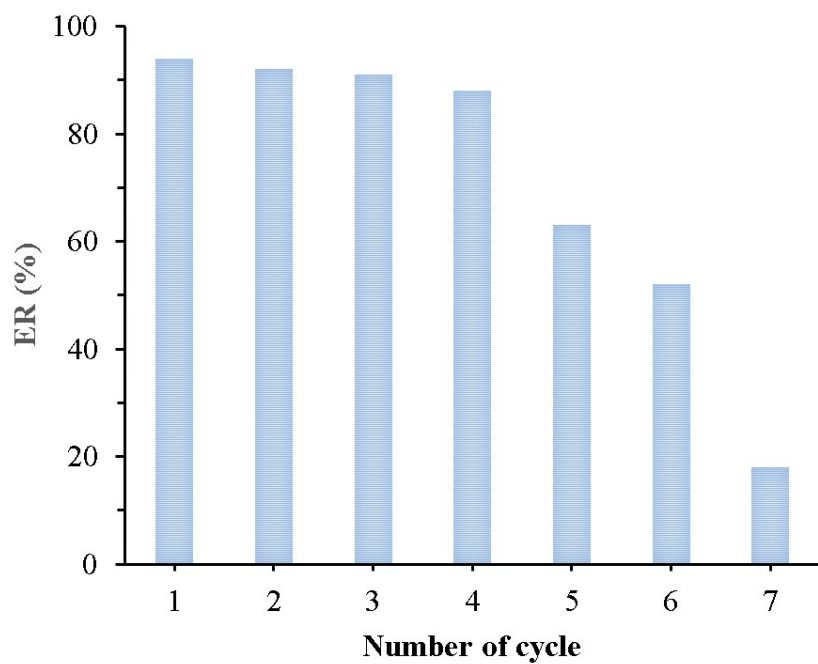
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Fig. S7 Reusability of adsorbent.

Table S1MS/MS parameters of the IMM and IS.

Analyte	Precursor ion (m/z)	Product ion (m/z)	Dwell time (s)	Collision energy (V)	Cone voltage (V)
IMM	494.1	217.14, 393.82 ^a	0.10, 0.10	12, 24	58
SLZ (IS)	253.93	108.07, 155.41 ^a	0.10, 0.10	8, 14	35

123 a: Ion for quantification.

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