

Supplementary Materials

Drug Delivery System Based on pH-Sensitive Biocompatible Poly(2-vinyl pyridine)-*b*-poly(ethylene oxide) Nanomicelles Loaded with Curcumin and 5-Fluorouracil

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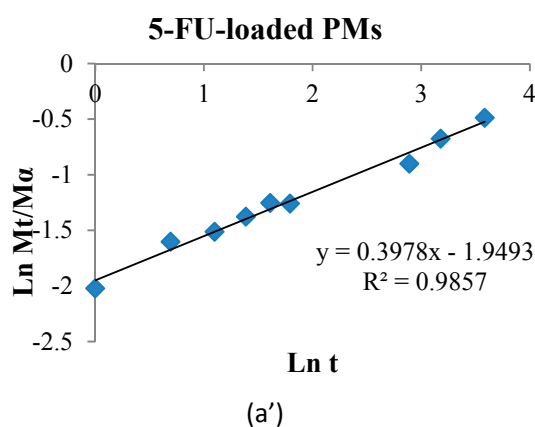
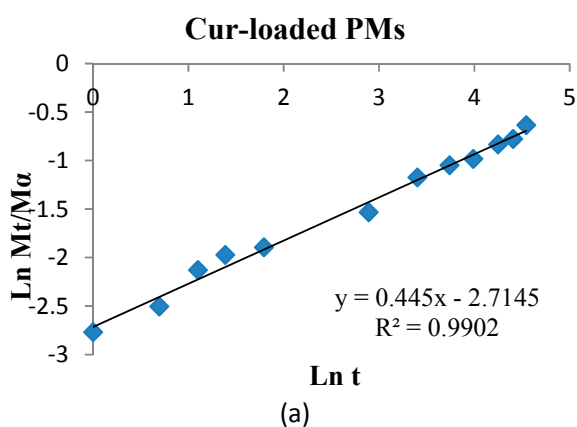
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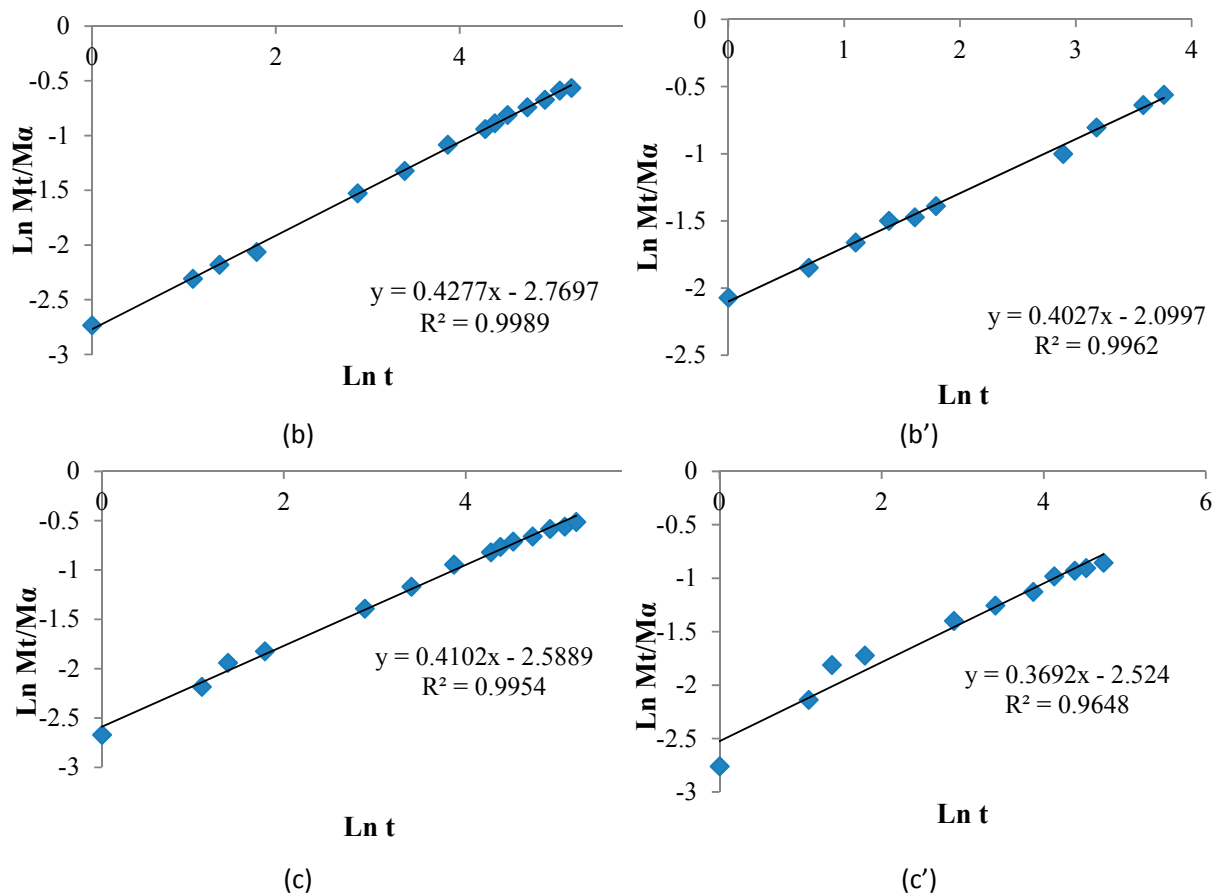


Figure S1: Graphical representations of $\ln(\text{release efficiency})$ vs $\ln(\text{time})$ for Cur-loaded PMs and 5-FU-loaded PMs at pH 2 (a, a'); 6.8 (b, b') and 7 (c, c')

Table S1: Peaks assignments for free Cur, free P2VP₉₀-*b*-PEO₃₉₈ copolymer, and Cur-loaded PMs obtained by FTIR

Groups	Frequencies (cm ⁻¹)		
	Curcumin	P2VP ₉₀ - <i>b</i> -PEO ₃₉₈ copolymer	Cur-loaded PMs
ν_{OH} stretching	3511	3100-3600	3100-3600
ν_{CH}	3000-2930	2882	2882
ν_{CH_2}	3000-2930	2882	2882
$\nu_{C=C}$ stretching	1628	-	1624
$\nu_{C=C}$ stretching	1600	1590	1590

$\nu_{C=O}$ stretching	1600	1568	1568
$\nu_{C=O}$ stretching	<i>1510</i>	-	<i>1512</i>
δ_{CH_2}	-	1469	1467
ν_{CH} stretching	-	1434	1434
δ_{C-N}	-	1360	1360
ν_{CH_3} stretching	-	1342	1342
ν_{C-O} (in phenol) stretching	1280	1280 1241	1280 1241
ν_{C-O-C} stretching	-	1147	1146
δ_{C-N}	-	1103	1101
ν_{CH_2}	-	1061	1061
δ_{C-H}	<i>975</i>	-	<i>994</i>
δ_{C-N}	-	961 842	961 842
ν_{N-H} stretching	788	748	748
δ_{C-CH}	788	748	748

Table S2: Peaks assignments for free 5-FU, free P2VP₉₀-*b*-PEO₃₉₈ copolymer, and 5-FU-loaded PMs obtained by FTIR

Groups	Frequencies (cm ⁻¹)		
	5-FU	P2VP ₉₀ - <i>b</i> -PEO ₃₉₈ copolymer	5-FU-loaded PMs
v _{OH} stretching	-	3100-3600	3100-3600
v _{CH} stretching	2800-3100	2882	2882
δ _{N-H}	2800-3100	2882	2882
v _{CH2} stretching	2800-3100	2882	2882
v _{C=C} ring stretching vibrations	1661	1590	1590
v _{C=O} stretching	1661	1568	1568
δ _{CH2}	1450	1469	1469
v _{CH}	1430	1434	1434
δ _{C-N}	1349	1360	1360
v _{CH3} stretching	1349	1342	1342
v _{CH}	1246	1280	1280
v _{CH2}	1246	1241	1241
v _{C-O-C} stretching	1182	1147	1147
δ _{C-N}	1182	1103	1101
v _{CH2}	-	1061	1061
v _{C-N} stretching	948	961	961
v _{C-F} stretching	880	842	842
v _{N-H} stretching	752	748	748
v _{C-CH} stretching	752	748	748