

# Nanoparticle-Based Rifampicin Delivery System Development

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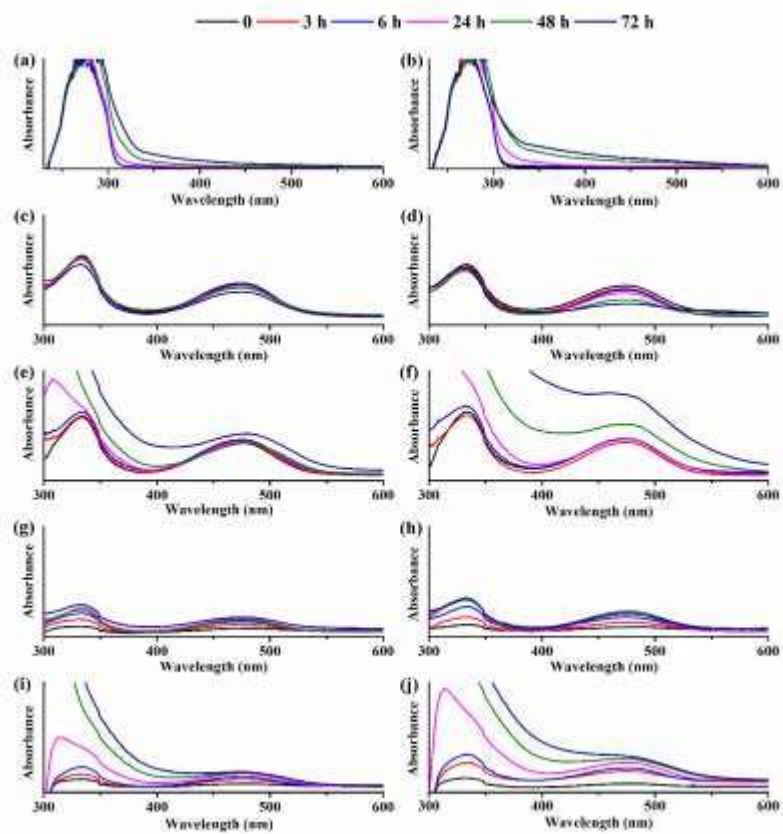
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**Table S1.** Percentage of degradation at different environmental conditions and predetermined time intervals (h)

		0	3	6	24	48	72
ASC	pH 7.4	0.08±0.00	1.12±0.01 <sup>l</sup>	2.43±0.23 <sup>o</sup>	8.99±0.28 <sup>e</sup>	28.81±0.11 <sup>y</sup>	58.39±0.06 <sup>e</sup>
	pH 8.5	0.15±0.06	0.19±0.29 <sup>l</sup>	1.7±0.13 <sup>o</sup>	14.18±0.12 <sup>e</sup>	46.86±0.13 <sup>y</sup>	72.24±0.11 <sup>e</sup>
RIF	pH 7.4	0.00±0.00	0.00±0.00	5.19±0.11 <sup>*</sup>	20.71±0.13 <sup>#</sup>	37.11±0.29 <sup>s</sup>	50.60±0.49 <sup>k</sup>
	pH 8.5	0.00±0.00	0.16±0.07	7.00±0.29 <sup>*k</sup>	23.75±0.25 <sup>#a</sup>	50.31±0.42 <sup>sx</sup>	70.45±0.18 <sup>kx</sup>
	ASC, pH 7.4	0.00±0.00	0.00±0.00	0.00±0.00 <sup>*</sup>	0.00±0.00 <sup>#o</sup>	3.19±0.31 <sup>sg</sup>	9.27±0.42 <sup>ke</sup>
	ASC, pH 8.5	0.00±0.00	0.11±0.09	0.99±0.15 <sup>k</sup>	5.21±0.12 <sup>os</sup>	8.83±0.11 <sup>zn</sup>	12.62±0.11 <sup>so</sup>
RIF/ PENs	pH 7.4	0.00±0.00	0.00±0.00	0.00±0.00	4.12±0.24 <sup>#ob</sup>	4.19±1.28 <sup>su</sup>	3.77±0.37 <sup>kec</sup>
	pH 8.5	0.00±0.00	0.00±0.00	0.00±0.00	5.46±0.58 <sup>obp</sup>	20.48±0.25 <sup>zn</sup>	42.40±1.74 <sup>soq</sup>
	ASC, pH 7.4	0.00±0.00	0.00±0.00	0.00±0.00	12.50±1.18 <sup>#ob</sup>	24.17±2.75 <sup>sdv</sup>	44.63±4.68 <sup>ec</sup>
	ASC, pH 8.5	0.00±0.00	0.00±0.00	0.00±0.00	1.09±0.08 <sup>osp</sup>	3.22±0.10 <sup>zn</sup>	21.69±3.07 <sup>soq</sup>

n = 3, Mean ± Standard Deviation, Asterisks describe *p* value<0.05



**Figure S1.** UV/Vis spectra of ASC/pH 7.4 (a), ASC/pH 8.5 (b), RIF/pH 7.4 (c), RIF/pH 8.5 (d), RIF/ASC/pH 7.4 (e), RIF/ASC/pH 8.5 (f), RIF/APENs/pH 7.4 (g), RIF/APENs/pH 8.5 (h), RIF/APENs/ASC/pH7.4 (i) and RIF/APENs/ASC/pH 8.5 (j).