

# Supplementary Materials

## Study of Hydroxypropyl $\beta$ -Cyclodextrin and Puerarin Inclusion Complexes Encapsulated in Sodium Alginate-Grafted-2-Acrylamido -2-Methyl-1-Propane Sulfonic Acid Hydrogels for Oral Controlled Drug Delivery

**Table S1.** Effect of materials ratio on the release of puerarin from SA-g-AMPS hydrogels cross-linked with EGDMA.

F. Codes	pH	Zero Order		First Order		Higuchi Model		Korsmeyer-Peppas Model	
		$K_0$ (h <sup>-1</sup> )	$r^2$	$K_1$ (h <sup>-1</sup> )	$r^2$	$K_2$ (h <sup>-1</sup> )	$r^2$	$r^2$	n
SAE-1	1.2	1.278	0.9732	0.018	0.9899	7.242	0.9987	0.9991	0.519
	7.4	0.933	0.9694	0.012	0.9817	5.325	0.9993	0.9988	0.473
SAE-2	1.2	1.056	0.9561	0.014	0.9747	0.038	0.9970	0.9975	0.457
	7.4	1.049	0.9640	0.014	0.9800	0.009	0.9994	0.9990	0.457
SAE-3	1.2	0.802	0.9553	0.010	0.9684	4.611	0.9970	0.9970	0.434
	7.4	0.688	0.9217	0.008	0.9361	4.051	0.9893	0.9974	0.320
SAE-4	1.2	1.218	0.9712	0.016	0.9877	0.907	0.9976	0.9981	0.519
	7.4	0.901	0.9572	0.011	0.9706	5.189	0.9966	0.9964	0.424
SAE-5	1.2	1.056	0.9561	0.014	0.9747	0.038	0.9970	0.9975	0.457
	7.4	1.049	0.9640	0.014	0.9800	0.009	0.9994	0.9990	0.457
SAE-6	1.2	1.258	0.9479	0.017	0.9741	7.188	0.9938	0.9940	0.488
	7.4	0.774	0.9516	0.009	0.9641	4.466	0.9968	0.9978	0.417
SAE-7	1.2	1.285	0.9664	0.018	0.9857	7.308	0.9990	0.9990	0.503
	7.4	0.850	0.9627	0.011	0.9986	4.870	0.9985	0.9981	0.449
SAE-8	1.2	1.056	0.9561	0.014	0.9747	0.038	0.9970	0.9975	0.457

SAE-9	7.4	1.049	0.9640	0.014	0.9800	0.009	0.9994	0.9990	0.457
	1.2	0.955	0.9499	0.012	0.9684	5.484	0.9963	0.9968	0.453
	7.4	0.879	0.9565	0.011	0.9709	5.058	0.9983	0.9983	0.438