Investigation of Silicone Hydrogel Contact Lenses Functionalized with Hollow Silica Nanoparticles for Drug Loading

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Table S1. Formulation of HSN-SCL lenses

Sample	PDMS-PU (wt%)	SIGMA (wt%)	DMA (wt%)	NVP (wt%)	PEGMA (wt%)	HSN (wt%)
SCL	30	30	20	10	10	0
HSN_{30}-SCL-1	30	30	20	10	10	0.5
HSN_{30}-SCL-2	30	30	20	10	10	1.0
HSN_{30}-SCL-3	30	30	20	10	10	1.5
HSN_{30}-SCL-4	30	30	20	10	10	2.0
HSN_{30}-SCL-5	30	30	20	10	10	3.0
HSN_{60}-SCL	30	30	20	10	10	1.0
HSN_{100}-SCL	30	30	20	10	10	1.0

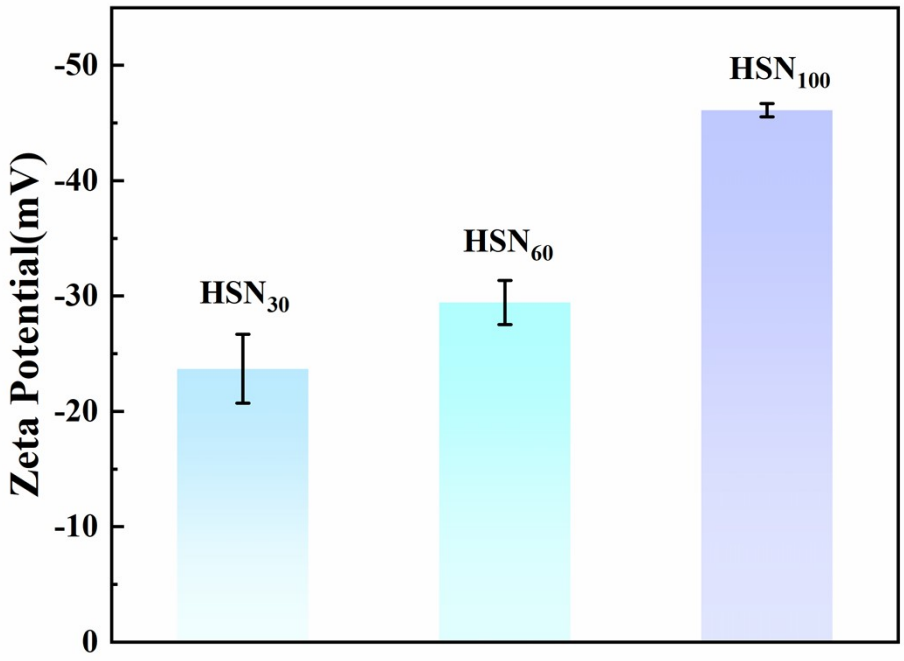

Figure S1. Zeta potentials of hollow silica nanoparticles with different sizes

Table S2. Data of LVF loaded (μg/lens), LVF released (μg/lens) and LVF released (%) from SCL and HSN_{30}-SCL samples

Sample	LVF loaded (μg/lens)	LVF released (μg/lens)	LVF released (%)
SCL	57.1	51.7	90.5
HSN_{30}-SCL-1	81.2	71.3	87.7
HSN_{30}-SCL-2	136.5	116.4	85.3
HSN_{30}-SCL-3	197.7	160.9	81.4

HSN_{30}-SCL-4	253.2	201.3	79.5