

Electronic Supplementary Material (ESI)

for

Synergistic Antiviral Effect of Curcumin and Functionalized Graphene Oxide against Respiratory Syncytial Virus Infection

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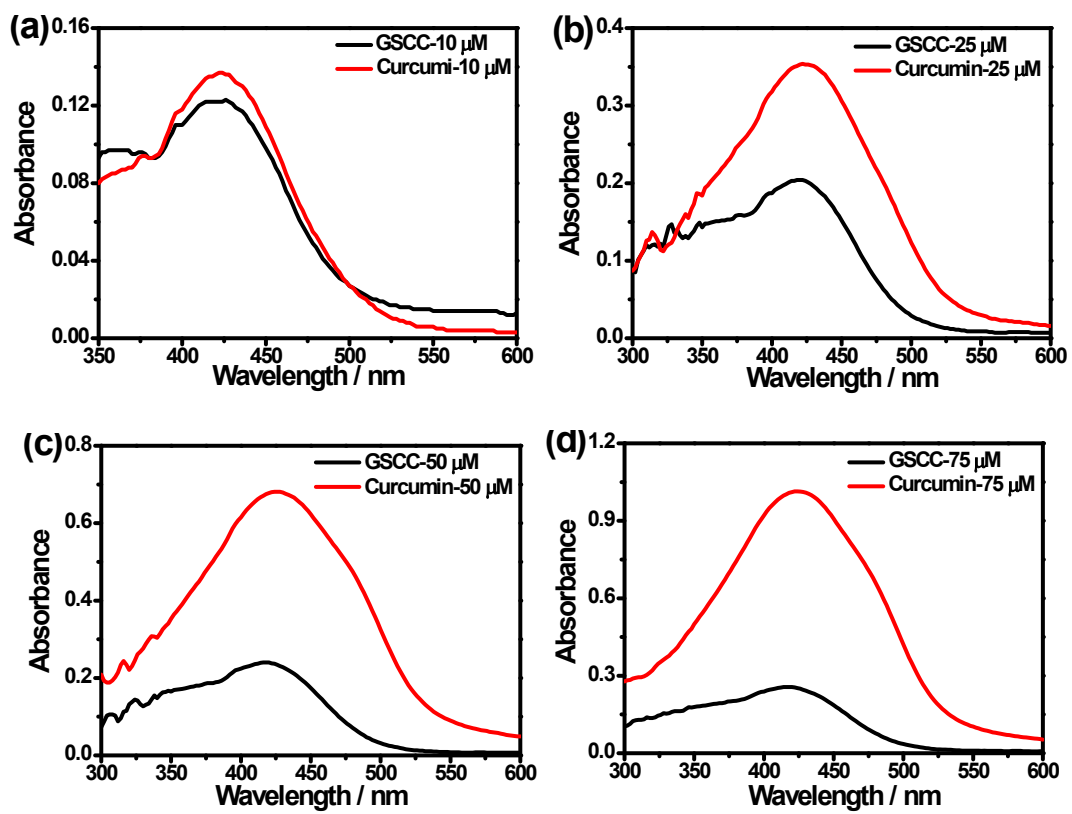


Figure S1 Loading efficiency of curcumin in GSC.

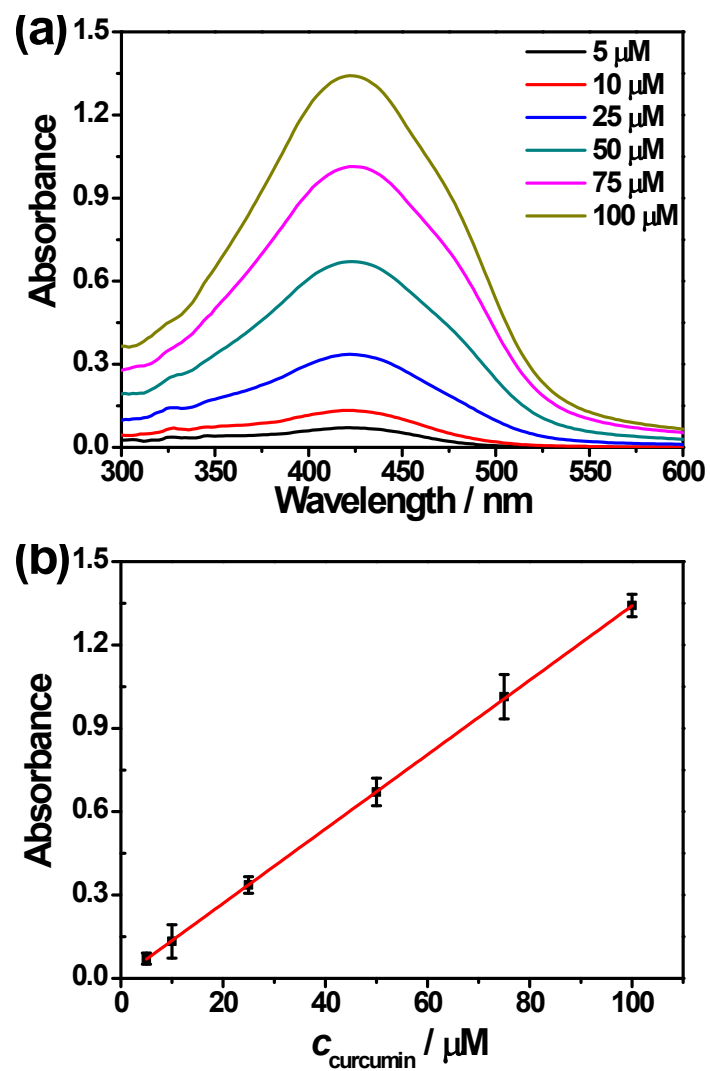


Figure S2 Calibration curve of curcumin, measured by UV/Vis spectroscopy.

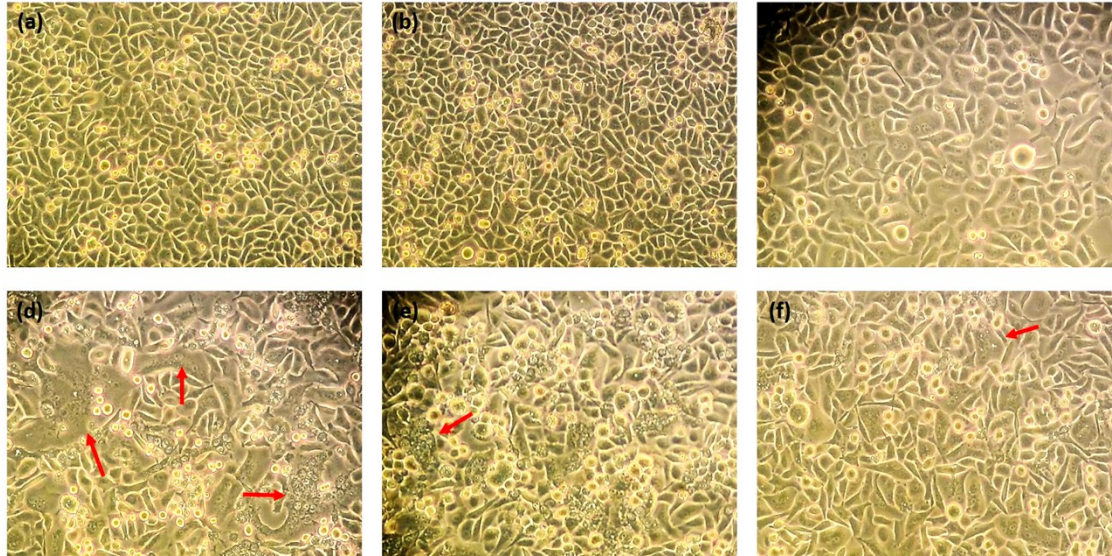


Figure S3 The cytopathic effect (CPE) result of HEp-2 cells infected with RSV. (a), The mock HEp-2 cells; (b), HEp-2 cells incubated with GSCC; (c), HEp-2 cells incubated with curcumin; (d), HEp-2 cells infected with RSV; (e), HEp-2 cells infected with GSCC inactivating RSV (GSCC incubated with RSV for 1 h prior to infect HEp-2 cells); (f), HEp-2 cells infected with RSV, and incubated with GSCC afterwards.

Table S1. Elemental analysis of GO and functionalized GO

	C (%)	O (%)	S (%)
GO	56.51	42.41	1.08
GO-SO ₃	73.68	23.48	2.94

Table S2. DLS measurements of GO, GSC and GSCC

Samples	Size \pm SD (nm)	Zeta \pm SD (mV)
GO	109.6 \pm 5.5	-23.0 \pm 1.5
GSC	127.7 \pm 1.6	-19.4 \pm 0.8
GSCC	206.3 \pm 2.3	-17.7 \pm 1.3