

Supporting Information

pH-Sensitive ZnO quantum dots-doxorubicin nanoparticles for lung cancer targeted drug delivery

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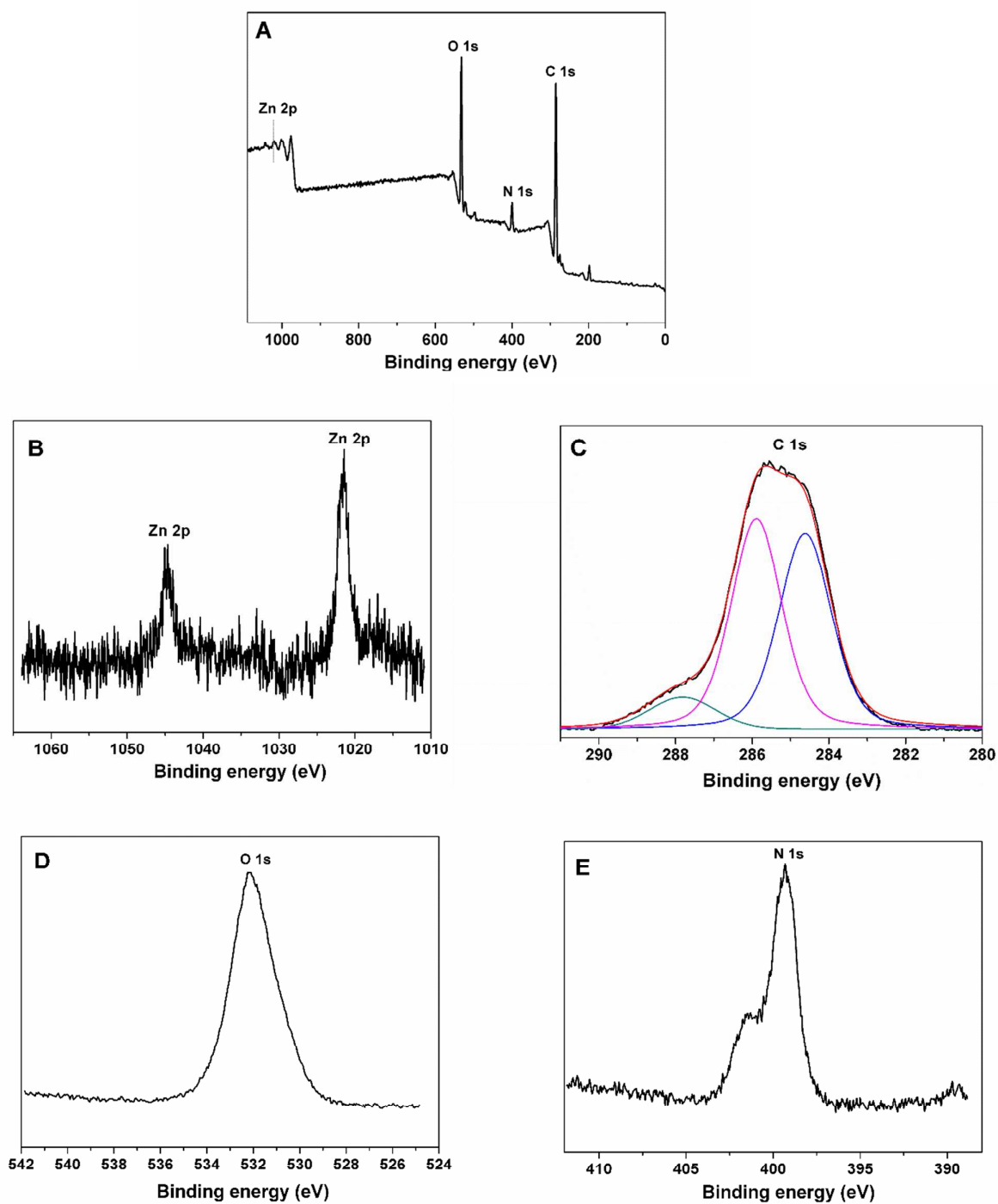


Figure S1. XPS spectrum of PEG-ZnO. (A) full survey spectrum, (B) Zn 2p peak, (C) C 1s peak, (D) O 1s peak, (E) N 1s peak.

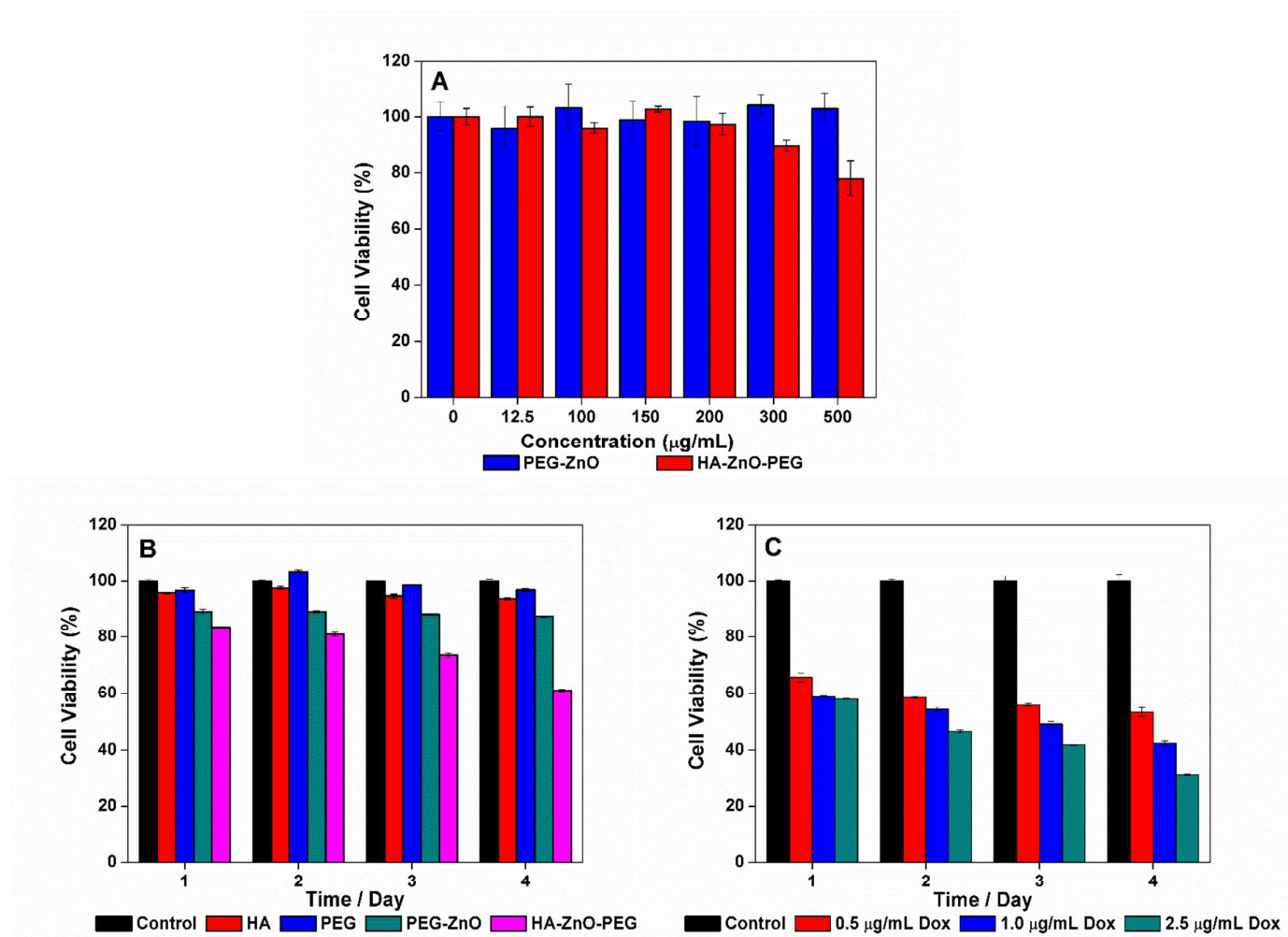


Figure S2. Cytotoxicity assay of A549 cells in the presence of different concentrations of (A) PEG-ZnO and HA-ZnO-PEG. (B) Cytotoxicity assay of A549 cells with time in the presence of 250 $\mu\text{g/mL}$ of HA, PEG, PEG-ZnO and HA-ZnO-PEG. (C) Cytotoxicity assay of A549 cells with time in the presence of different concentrations of HA-ZnO-DOX with 0.5 $\mu\text{g/mL}$ of DOX, HA-ZnO-DOX with 1.0 $\mu\text{g/mL}$ of DOX and HA-ZnO-DOX with 2.5 $\mu\text{g/mL}$ of DOX, which confirms a sustained

release process and a controlled release behavior of HA-ZnO-DOX

Materials	Zeta potential (mV)
NH ₂ -ZnO	27.4
ZnO-PEG-COOH	-0.0521
ZnO-PEG-COOH+HA	-1.90

system.

Table S1. Zeta potential values of ZnO conjugates.