**Supplementary information**

**Combined Photodynamic-Chemotherapy investigation of Cancer Cells using Carbon Quantum Dot-Based Drug Carrier System**

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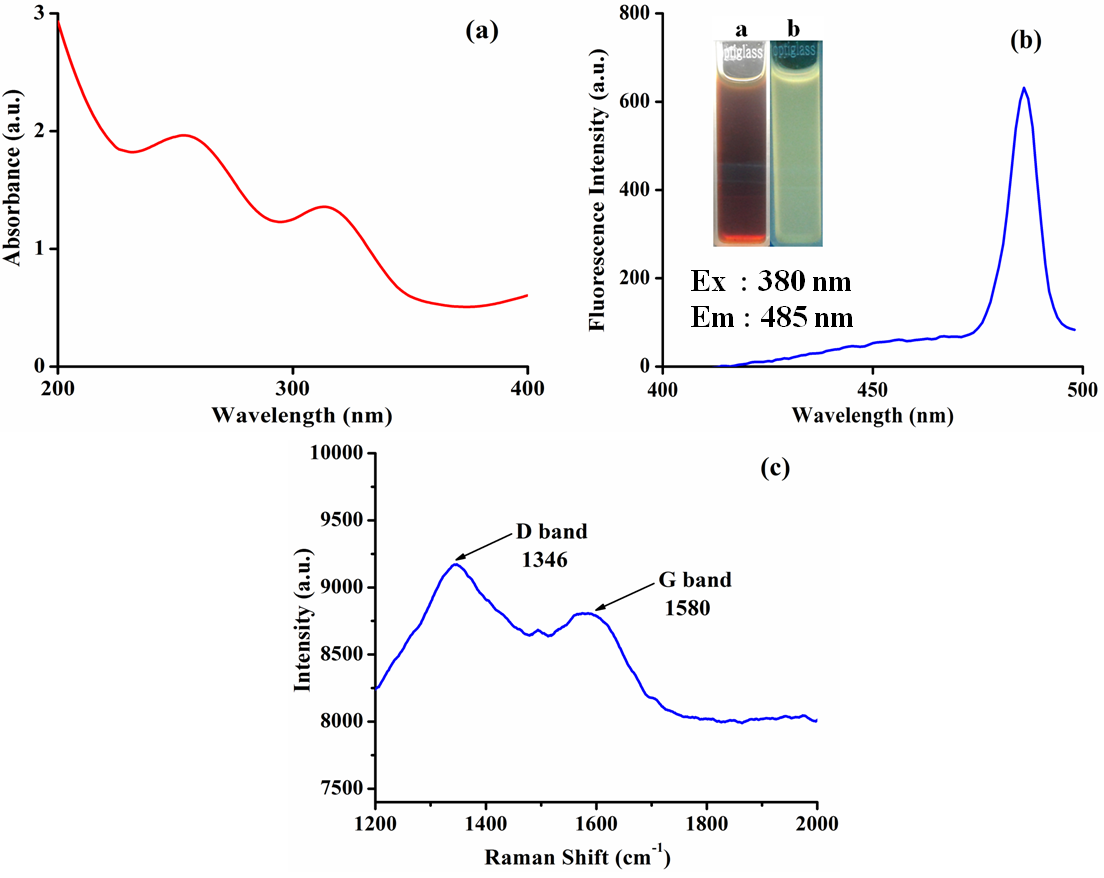
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**1. Carbon quantum dots methodology**

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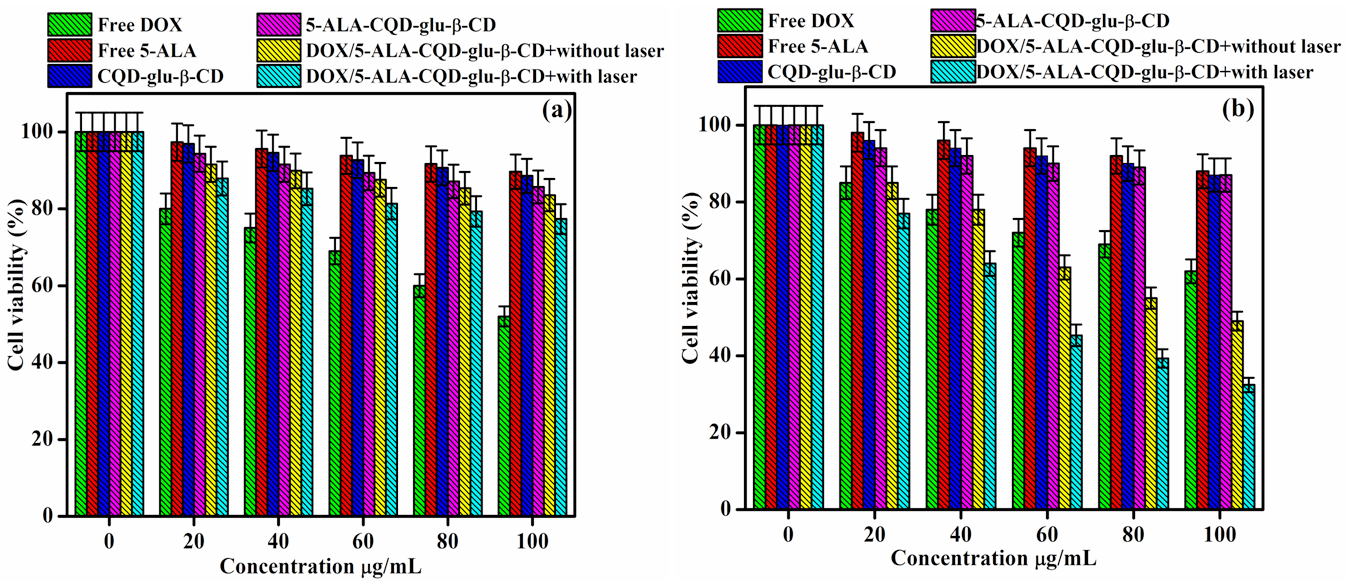
**S.Figure 1.** Synthetic representation of carbon quantum dot (CQD) preparation

**2. UV-Visible, Fluorescence and Raman spectroscopy**

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**S.Figure 2.**Carbon quantum dot spectrum of (a) UV-Visible spectroscopy (b) Fluorescence spectrum and (c) Raman Spectrum

**3. *In-vitro* cell cytotoxicity**



**S.Figure 3 (a&b).** *In-vitro* cytotoxic effect of fibroblast (WS-1) cell line and breast cancer (MCF-7) cell line in 24 h incubation with Free DOX, Free 5-ALA, CQD-Glu-β-CD, 5-ALA-CQD-Glu-β-CD and DOX/5-ALA-CQD-Glu-β-CD in without and with laser treatment at different concentration manner such as 0, 20, 40, 60, 80 and 100 μg/mL.