Supplementary Materials for

Curcumin-loaded albumin submicron particles with their potential as a cancer therapy: an in vitro study

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**Table S1** Size and zeta potential of HSA-MPs and CUR-HSA-MPs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Particle** | **Size** | | **Zeta potential** | | |
| **Z-Average Size (nm)** | **PdI** | **ZP (mV)** | **Mob (μmCm/Vs)** | **Cond (mS/cm)** |
| HSA-MPs | 888.88 ± 64 | 0.3 ± 0.14 | -14.50 ± 0.6 | -1.12 ± 0.05 | 18.38 ± 0.18 |
| CUR-HSA-MPs | 983.57 ± 82 | 0.31 ± 0.13 | -15.34 ± 0.2 | -1.21 ± 0.01 | 18.10 ± 0.07 |

Data are presented as mean ± SD. (n = 3); Conductivity (Cond), electrophoretic mobility unit (Mob), polydispersity index (PdI), and zeta potential (ZP).

**Figure S1** Cellular uptake of CUR at 4 h in MCF-7 cell (A), free CUR (B), HSA-MPs (C), CUR-HSA-MPs in MCF-7 cell using fluorescence microscopy. A and B shows fluorescent images of non-treated and free curcumin-treated samples to verify the presence of cell autofluorescence. C imaged the internalization of HSA-MPs-FITC, which can be seen the fluorescence is diffused throughout the cytoplasm.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Bright fild** | **FITC** | **Merge** |
| **A** | F:\2022 Curcumin HSA\cell uptake\Slide1.TIF | | |
| **B** | F:\2022 Curcumin HSA\cell uptake\Slide2.TIF | | |
| **C** | F:\2022 Curcumin HSA\cell uptake\Slide3.TIF | | |
| **D** | F:\2022 Curcumin HSA\cell uptake\Slide4.TIF | | |