

Supplementary Materials

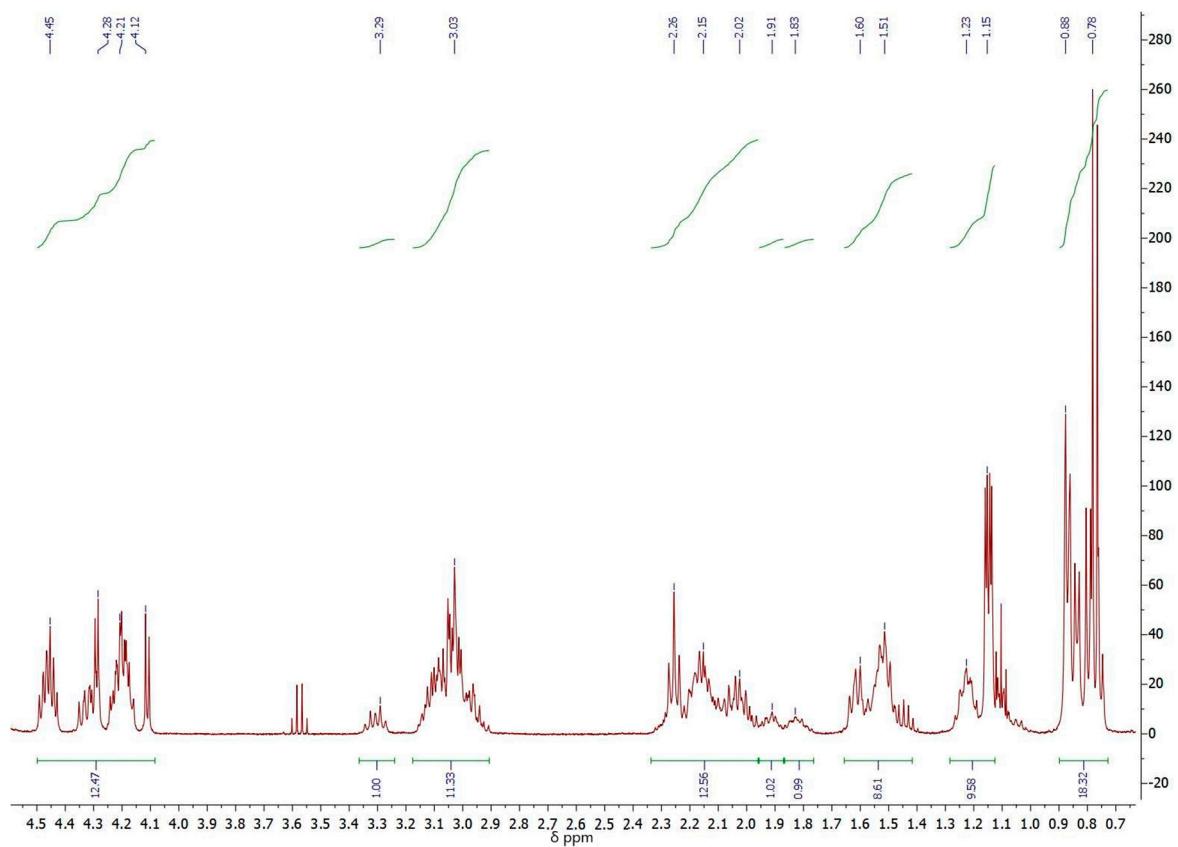


Figure S1. ¹H NMR spectrum of colistin (400 MHz, D₂O) δ 0.74-0.88 (m, 18H), 1.1-1.28 (m, 9,6H), 1.42-1.64(m, 8H), 1.83(m, 1H), 1.91 (m. 1H), 1.96-2.28(m, 12H), 2.92-3.15(m, 11H), 3,29(m, 1H), 4.10-4.50(m, 12H).

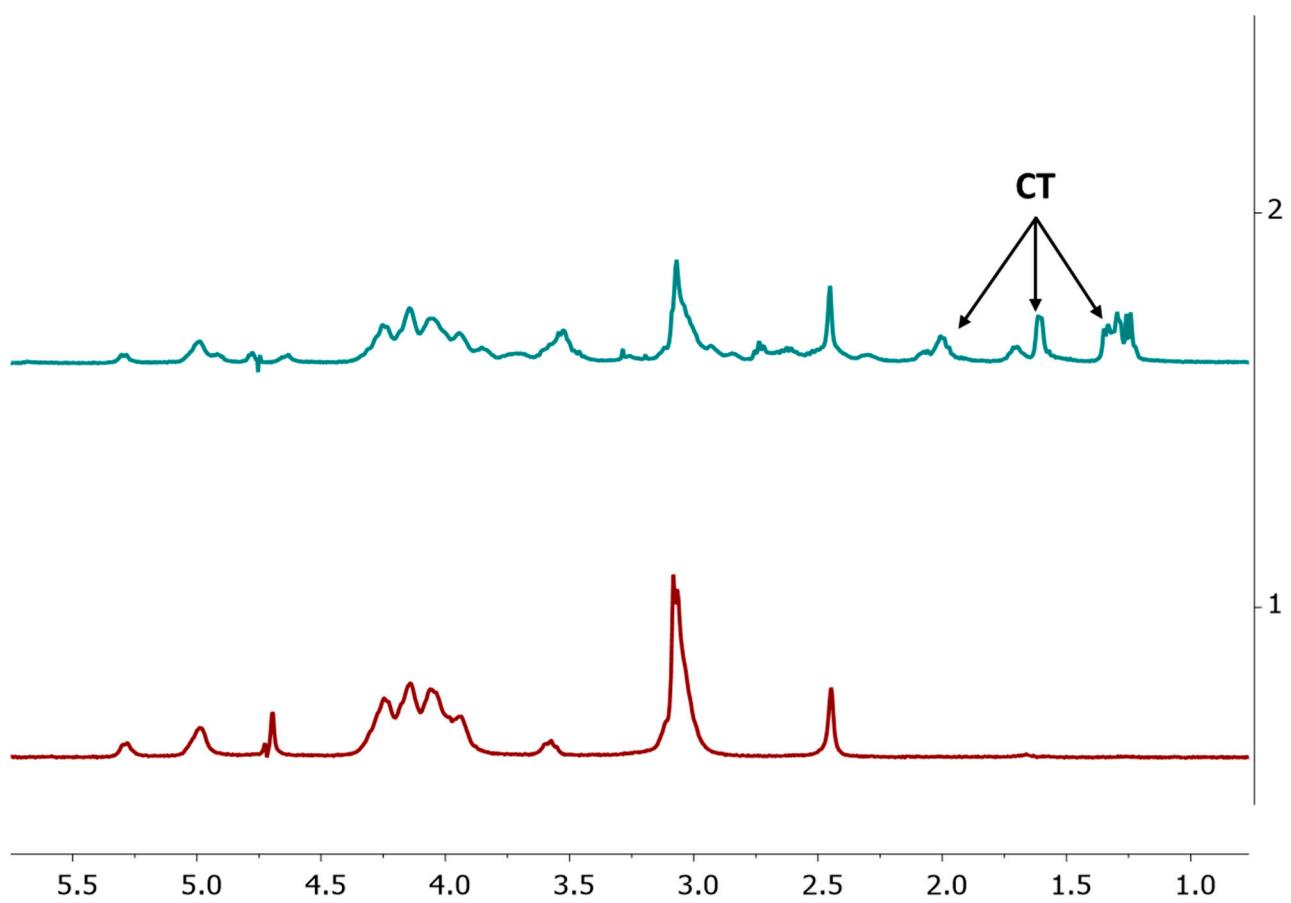
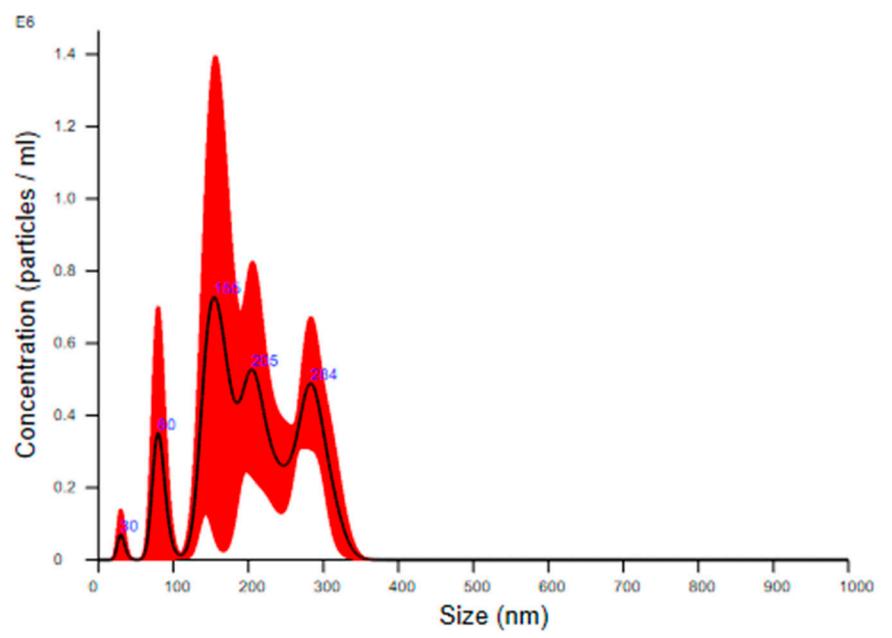
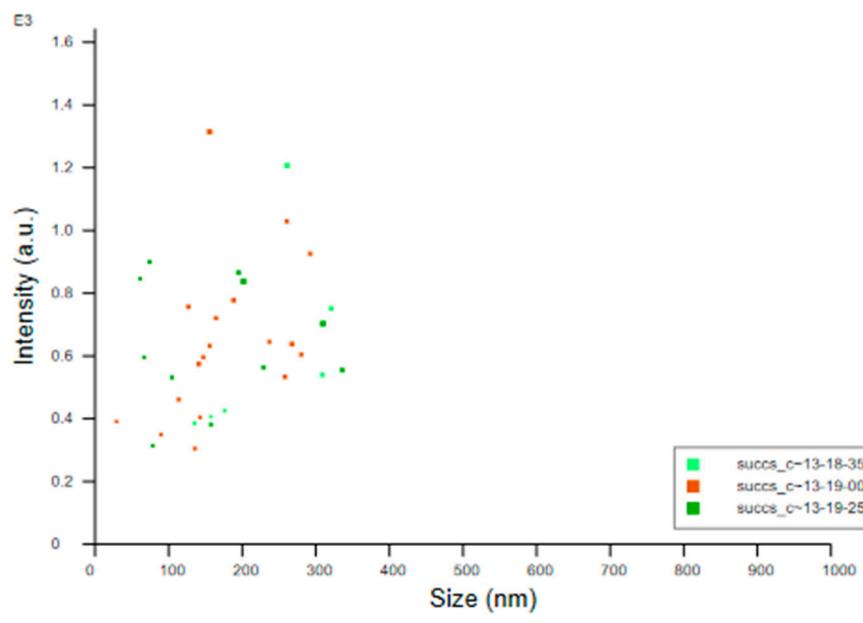


Figure S2. Stacked ^1H NMR spectra of succinyl chitosan (1) and succinyl chitosan-colistin conjugate (2).



(a)



(b)

Figure S3. Mean particle size (a) and particle size distribution (b) of SucCS-CT-10 according to the NTA method.

Table S1. Viability of LPS-treated THP-1 cells after 24 h in vitro co-cultivation with SucCS-CT-10 conjugate. Data are presented as mean \pm SD ($n \geq 6$); the data are shown as the percentages of viable cells.

LPS stimulation only 94,5 \pm 0,2			
Concentration	SucCS	CT	SucCS-CT-10
1000 μ g/mL	93,6 \pm 0,4	69,7 \pm 3 ***	85 \pm 2 ***
500 μ g/mL	93,5 \pm 0,5	86,1 \pm 0,8 ***	93,6 \pm 0,5
100 μ g/mL	93,2 \pm 0,7	93,2 \pm 0,4	93,4 \pm 0,6
10 μ g/mL	93,3 \pm 0,6	94,0 \pm 0,4	93,8 \pm 0,6
1 μ g/mL	93,4 \pm 0,6	93,8 \pm 0,5	93,9 \pm 0,5

*** – the differences with negative control (THP-1 cell without stimulation) were significant with $p < 0.001$, according to non-parametrical Mann–Whitney U test.