Supplementary Materials

Application prospects of FTIR spectroscopy and CLSM to monitor the drugs interaction with bacteria cells localized in macrophages for diagnosis and treatment control of respiratory diseases

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Content

Figure S1. FTIR spectra of *E. coli* incubated with drug delivery system HPCD-PEI1.8-triMan. T = 22 °C.

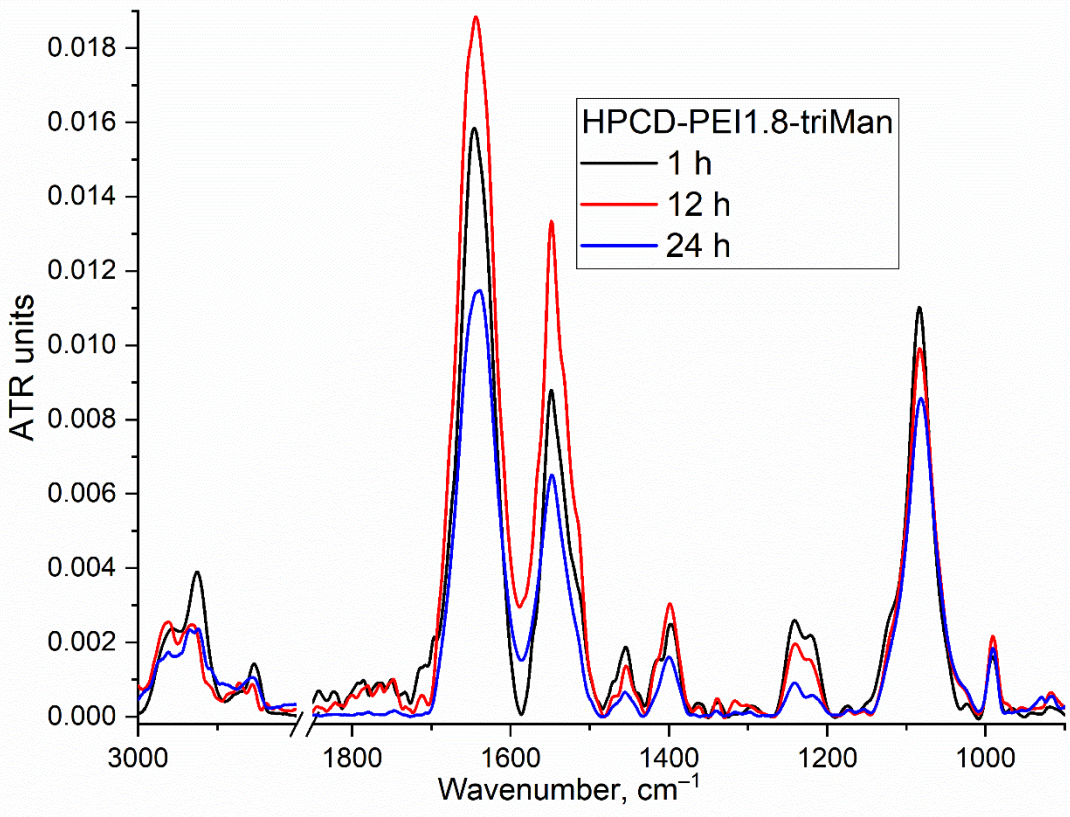

Figure S2. Emission fluorescence spectra of FITC (drug delivery system labelled), eosin (*E. coli* labelled) and Dox obtaining by CLSM. λ_{em} = 488 nm (multiline Argon laser).

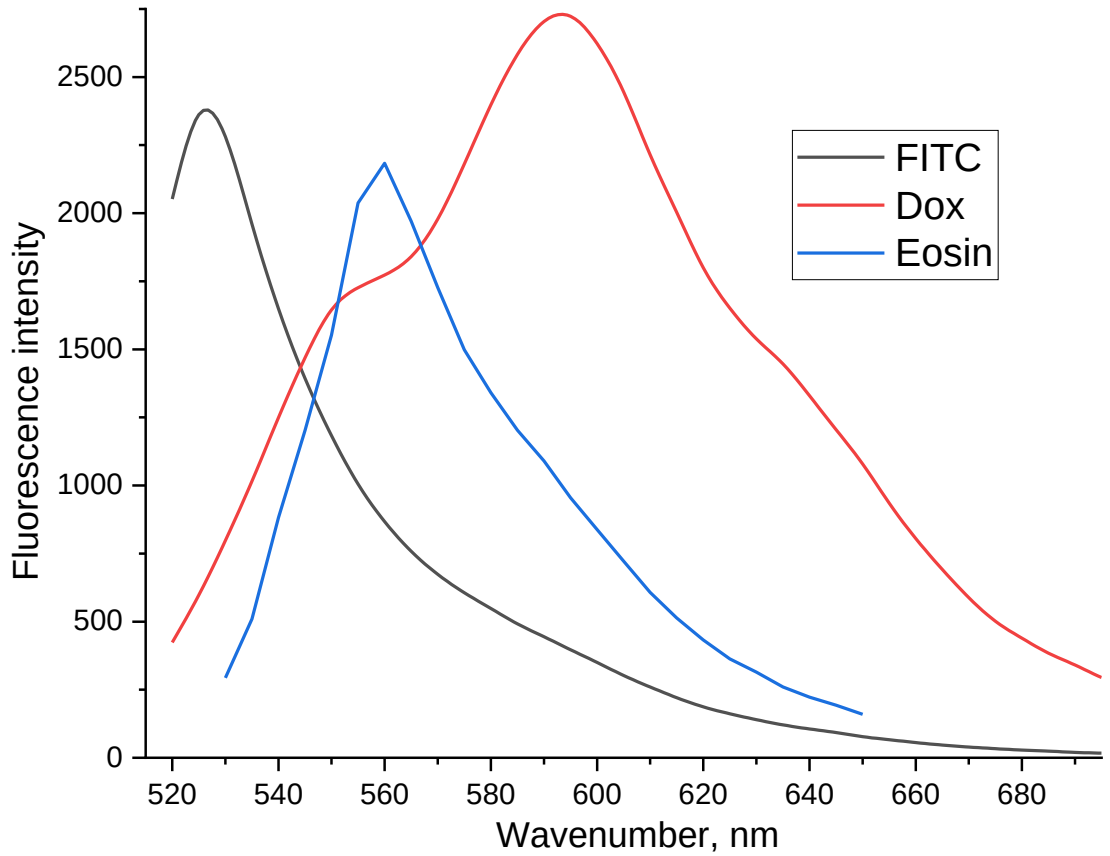

Figure S3. Confocal laser scanning images of CD206+ macrophages with absorbed eo-sin-labelled E. coli. Incubation with Dox and FITC-labeled HPCD-PEI1.8-triMan. The scale segment is 100 μm (division value is 20 μm); 4–6 channels are shown: red, Dox; green, FITC; magenta, eosin; gray, transmission light mode; and overlay. λ_{em} = 488 nm (multiline Argon laser).