Supporting information

Biodegradable multi-liposomal containers

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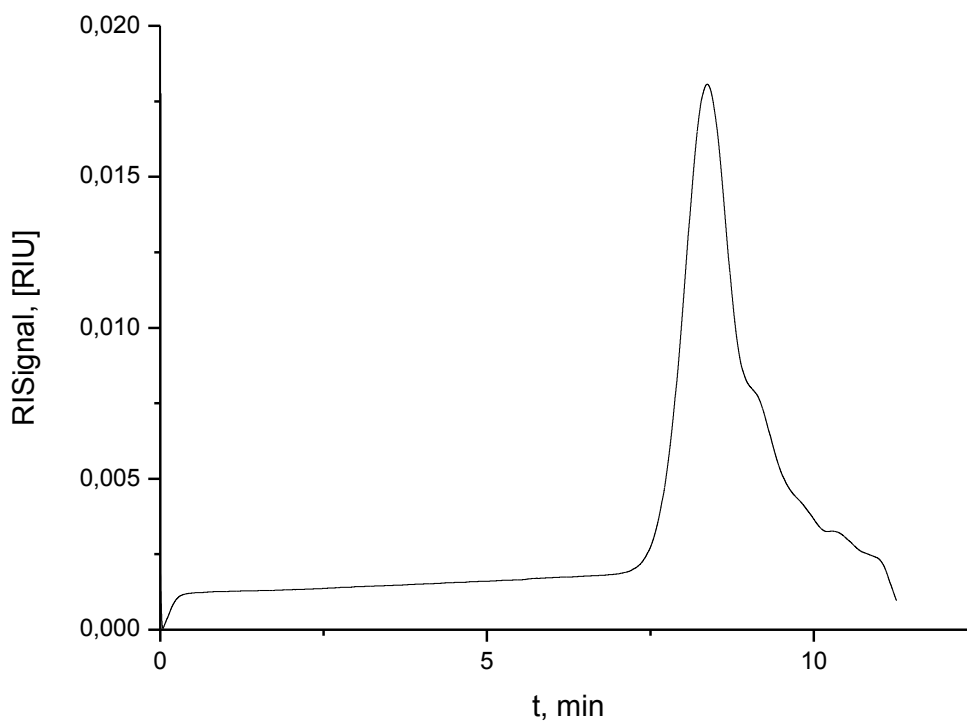**Characterization of triblock-copolymer of poly-L-lactide and poly (ethylene glycol)**

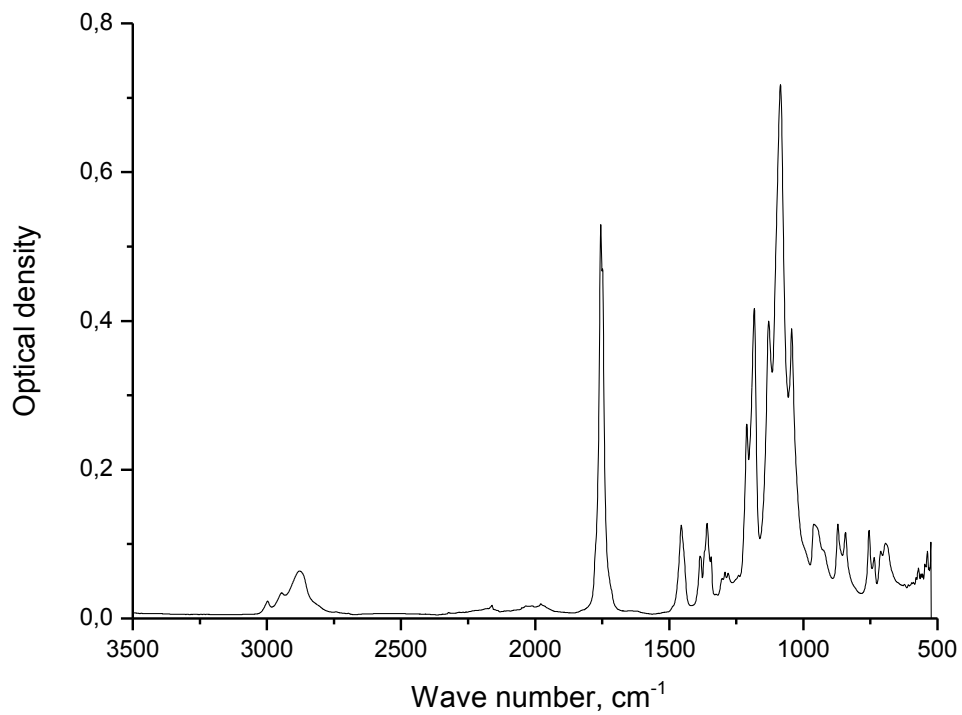Figure A. Chromatogram of triblock-copolymer PLA_{52}-PEG_{91}-PLA_{52}. Solvent – THF.

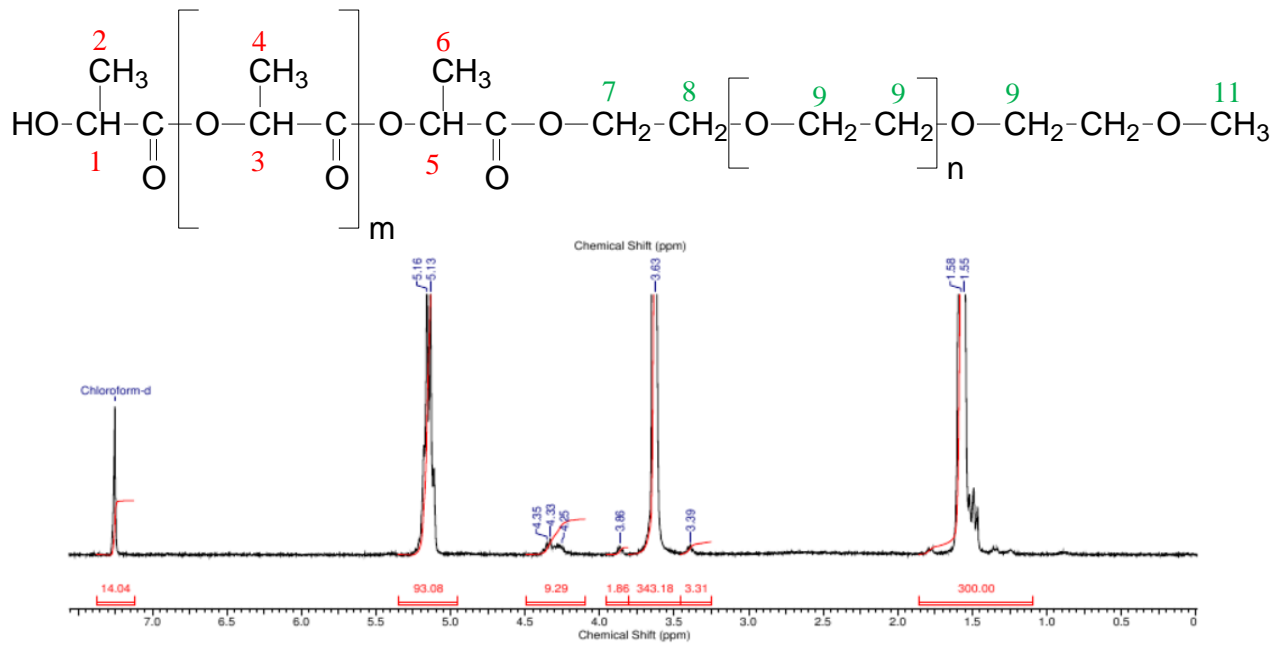Figure B. IR-spectrum of triblock-copolymer PLA_{52}-PEG_{91}-PLA_{52}.

Figure C. NMR-spectrum of triblock-copolymer PLA$_{52}$-PEG$_{91}$-PLA$_{52}$.
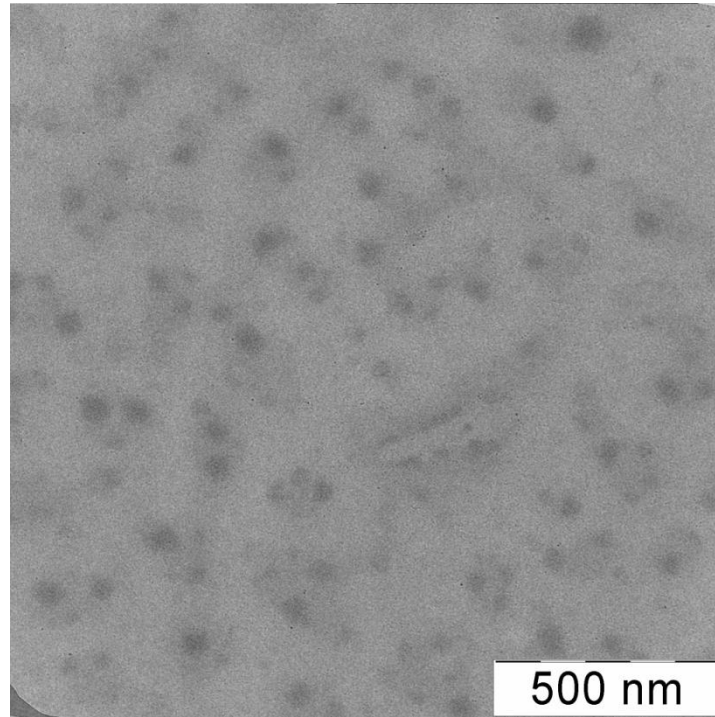
Figure D. TEM image of triblock-copolymer PLA_{52}-PEG_{91}-PLA_{52} micelles.

PEVP-to-liposome binding

A procedure described in [A. V. Sybachin , A. A. Efimova , E. A. Litmanovich , F. M. Menger and A. A. Yaroslavov, Langmuir, 2007, 23 (20), pp 10034–10039] was used. PEVP/liposome complex particles were separated from water-salt solutions by centrifugation at16.000 rpm for 40min on Beckman centrifuge, and the optical density (Absorbance) in the supernatants were measured spectrophotometrically at $\lambda = 257$ (circles) taking extinction coefficient of PEVP monomer unit equal to 3.350 L/(cm×mol).
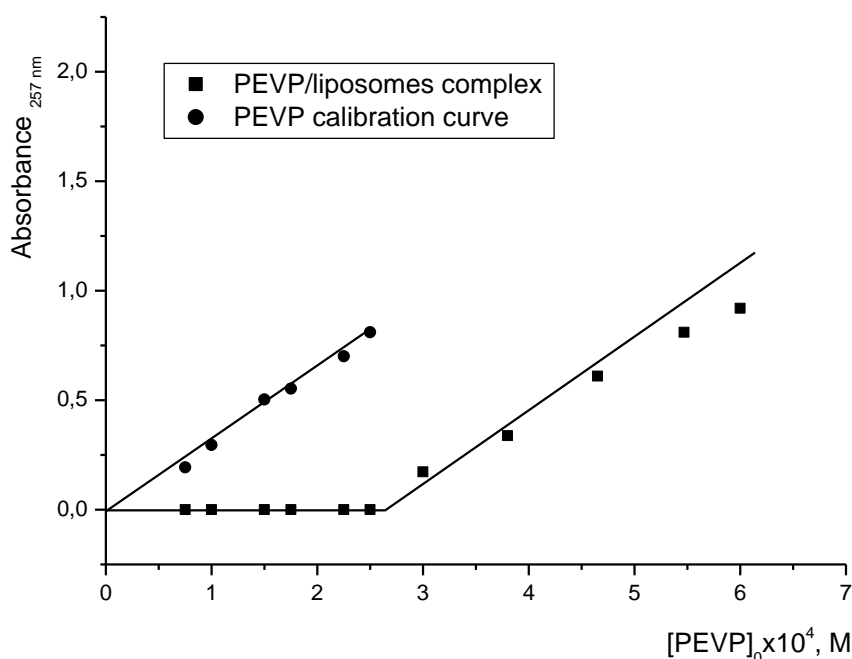

Figure E. Absorbance vs. PEVP concentration in the supernatants.

In the manuscript (Figurer 3), the dependence is presented that was re-plotted using a calibration curve for a pure PEVP solution without liposomes (Figure E, squares).