

Supplementary Materials: Antimicrobial activity of hybrid nanomaterials based on star and linear polymers of N,N'-dimethylaminoethyl methacrylate with in situ produced silver nanoparticles.

Paulina Teper ¹, Anna Sotirova ², Violeta Mitova ³, Natalia Oleszko-Torbus ¹, Alicja Utrata-Wesołek ¹, Neli Koseva ³, Agnieszka Kowalczyk ¹ and Barbara Mendrek ^{1,*}

¹ Centre of Polymer and Carbon Materials, Polish Academy of Sciences, M. Curie-Skłodowskiej 34, 41-819 Zabrze, Poland; pteper@cmpw-pan.edu.pl (P.T.), noleszko@cmpw-pan.edu.pl (N.O.-T.), autrata@cmpw-pan.edu.pl (A.U.-W.), akowalczyk@cmpw-pan.edu.pl (A.K.)

² Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Georgi Bonchev Str. 26, 1113 Sofia, Bulgaria; anna@microbio.bas.bg (A.S.)

³ Institute of Polymers, Bulgarian Academy of Sciences, Georgi Bonchev Str. Bl. 103A, 1113 Sofia, Bulgaria; mitova@polymer.bas.bg (V.M.), koseva@polymer.bas.bg (N.K.)

* Correspondence: bmendrek@cmpw-pan.edu.pl; +48-32-271-60

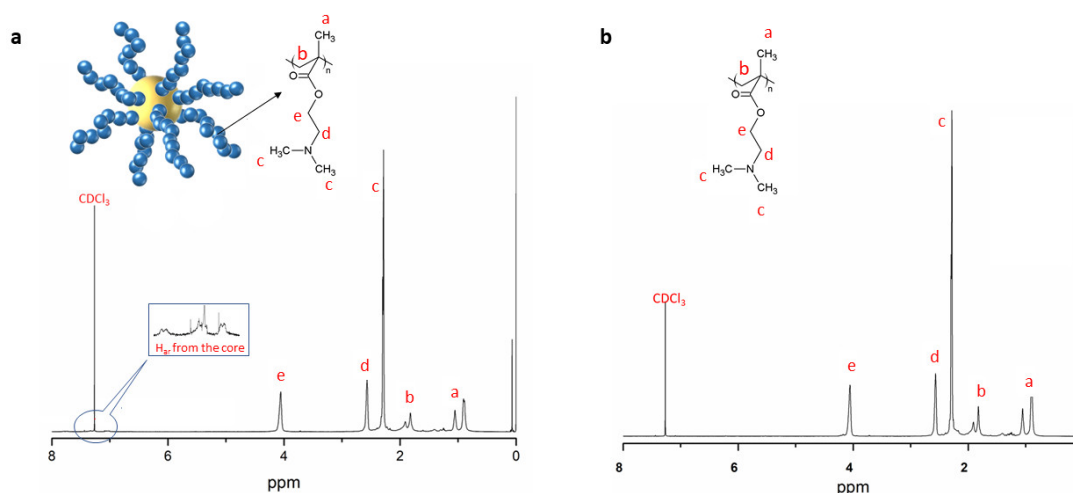


Figure S1. ¹H NMR spectra of (a) star PDMAEMA and (b) linear PDMAEMA (CDCl₃, 600 MHz)

The ¹H NMR spectra of both polymers (Figure S1a, b) displayed peaks for α-methyl groups and methylene groups in the methacrylate backbone at δ = 0.8–1.1 ppm (a) and 1.7–2.0 ppm (b), respectively. Proton signals from the methylene groups in pendant chains were found at δ = 2.5–2.6 ppm (d) and δ = 4.0–4.3 ppm (e), and signals from the methyl protons of the amino group were at δ = 2.2–2.4 ppm (c). Additionally, on star spectra are visible signals corresponding to the aromatic protons of the core in the range of 7.0–7.5 ppm (inset Figure S1a).



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