

Supporting Information

¹H NMR and elemental analysis data for synthesized polyhexamethylene guanidine salts

PHMG-Cl

¹H NMR (300 MHz; DMSO-D₆): δ = 1.32 (m, 4H, CH₂), 1.47 (m, 4H, NCH₂CH₂), 3.16 (m, 4H, NCH₂), 7.1-8.1 (br s, 4H, NH).

Elemental analysis found: C: 46.4; H, 8.6; N, 24.1; Cl 20.4. Calc. for (C₇H₁₆N₃Cl)_x: C, 47.3; H, 9.0; N, 23.6; Cl, 20.0.

PHMG-NS

¹H NMR (300 MHz; DMSO-D₆): δ = 1.39 (m, 4H, CH₂), 1.21 (m, 4H, NCH₂CH₂), 3.07 (m, 4H, NCH₂), 7.18-7.46 (br s, 4H, NH), 7.54 (m, 2H, H-6, H-7), 7.75 (d, 1H, H-3), 7.88-7.97 (m, 3H, H-4, H-8, H-5), 8.19 (s, 1H, H-1).

Elemental analysis: Found, C, 56.4; H, 6.3; N, 9.9; S, 9.1. Calc. for (C₁₆H₂₃N₃O₃S)_x: C, 56.9; H, 6.8; N, 12.4; S, 9.5.