

Supporting Information

“Breathing” Unimolecular Micelles Based on Novel Star-like Amphiphilic Hybrid Copolymer

Xiaoshan Fan^a, Zuo Wang^b, Chaobin He^{*ab}

^aDepartment of Materials Science and Engineering, National University of Singapore, 9 Engineering Drive 1, 117575 Singapore

E-mail: msehc@nus.edu.sg or cb-he@imre.a-star.edu.sg.

^bInstitute of Materials Research and Engineering, 3 Research Link, Singapore 117602

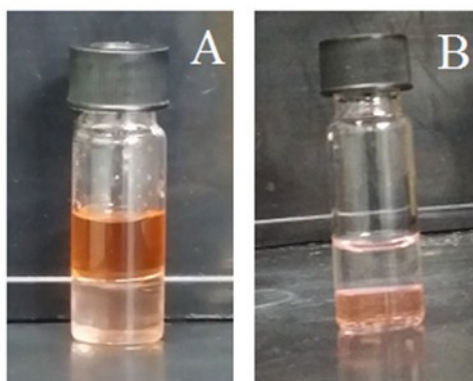


Figure S1. The DOX.HCl aqueous solution (up) and chloroform (bottom) (A); water (up) and the DOX.HCl-loaded chloroform solution (bottom) (B).

From Figure 5S A, it confirmed that the DOX.HCl is perfectly soluble in water, not chloroform phase; Figure 5S B demonstrated that the DOX.HCl has efficiently been loaded into the hybrid copolymer POSS-(PAA-(PLLA-OH)₄)₈. Otherwise, the DOX.HCl will be transferred to upper water phase.

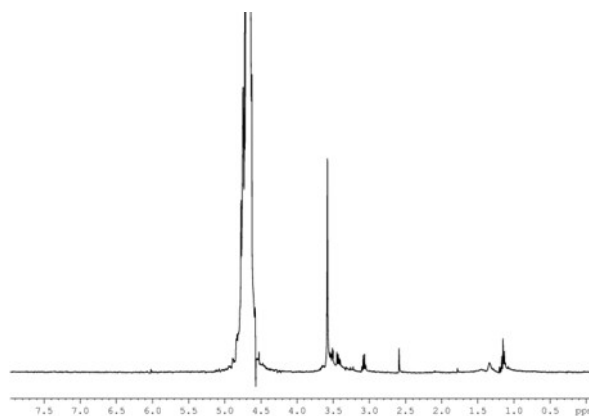


Figure S2. The ¹H NMR spectrum of the DOX.HCl-loaded micelles of POSS-(PAA-(PLLA-OH)₄)₈ in D₂O.

In Figure S6, the characteristic signals of DOX.HCl can't be seen completely, indicating they were encapsulated into inner PAA aqueous core