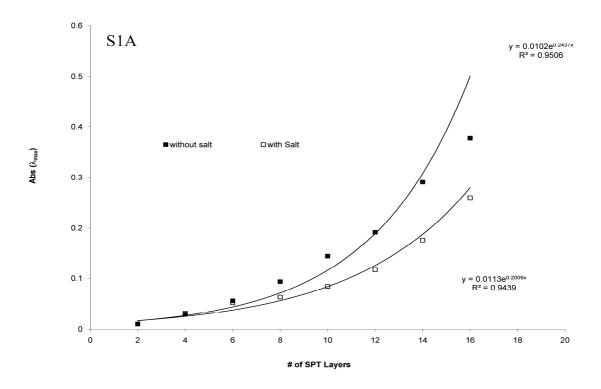
Electronic Supplementary Information

An erodible polythiophene-based composite for biomedical applications

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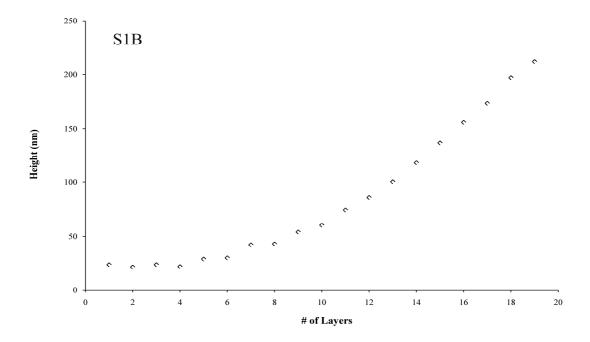


Fig S1A: Build-up process of the multilayer system monitored by UV-Vis spectrophotometer. Absorbance measured after deposition of each layer. Odd layer number: PEI deposition. Even layer number: SPT deposition. Solid lines are drawn to guide the eye. **S1B:** QCM data representing the exponential increase of the height of mBL_S as function of the number of layers deposited.

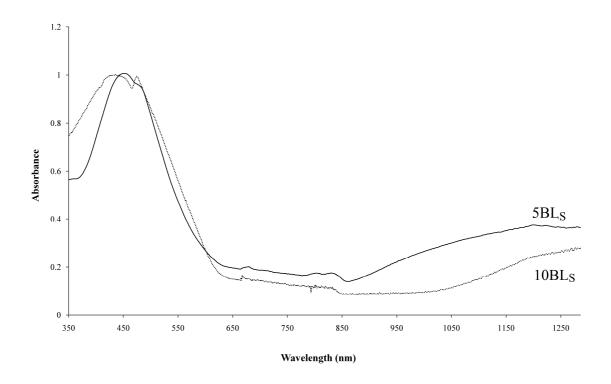


Fig S2: UV-Vis spectra of doped (—) $5BL_S$ and (…) $10BL_S$.

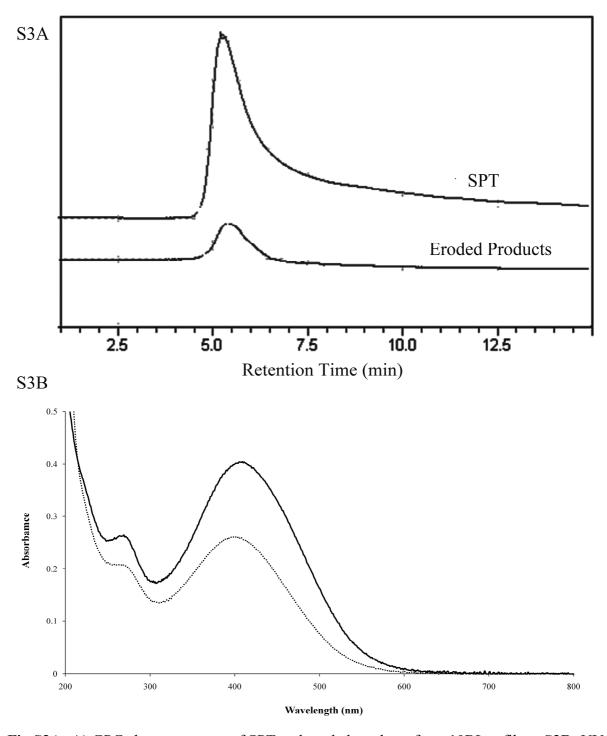


Fig S3A: A) GPC chromatograms of SPT and eroded products from $10BL_{NS}$ films. S3B: UV-Spectrum of (—) SPT aqueous solution and (---) eroded products of $10BL_{NS}$ films