Supporting Information

Easy-to-prepare Coating of Standard Cell Culture Dishes for Cell Sheet Engineering using Aqueous Solutions of Poly(2-n-propyl-oxazoline)

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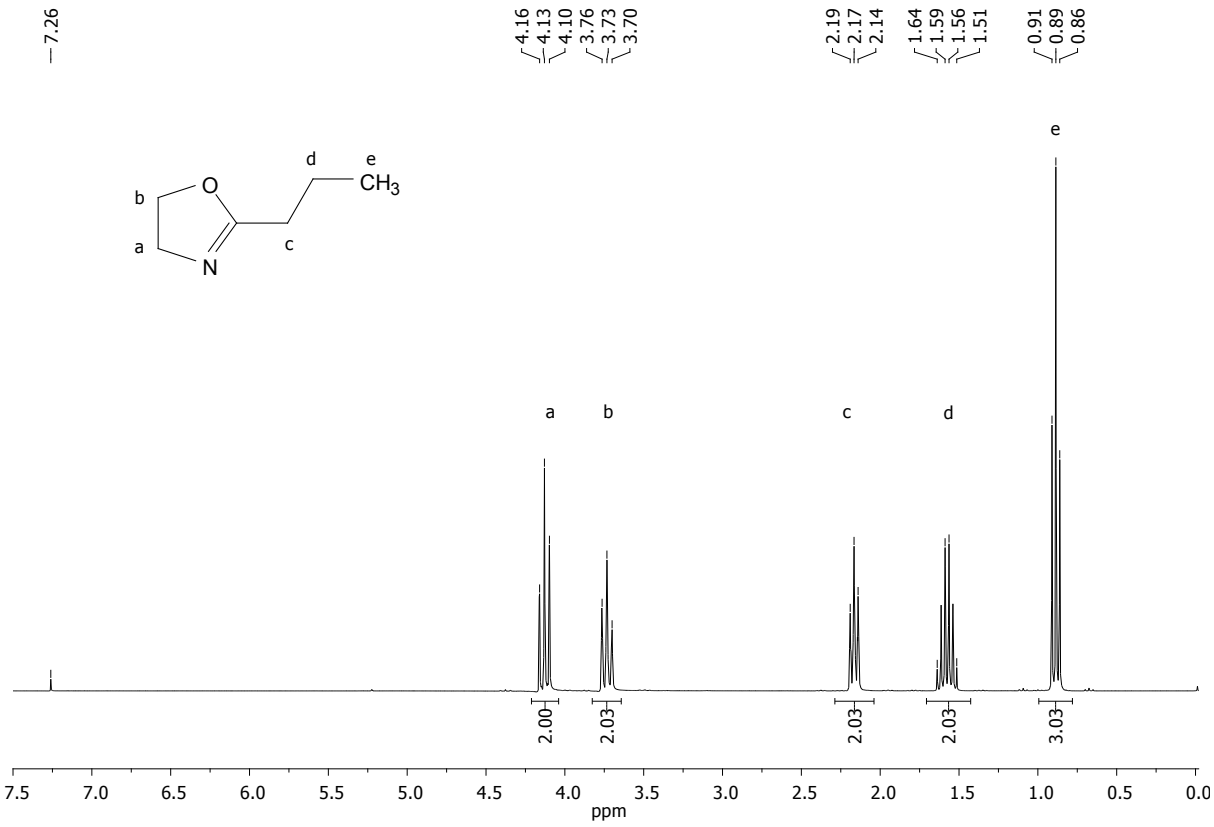

Figure S1. 1H NMR of monomer n-propyl-2-oxazoline (CD3CN, 300 MHz)

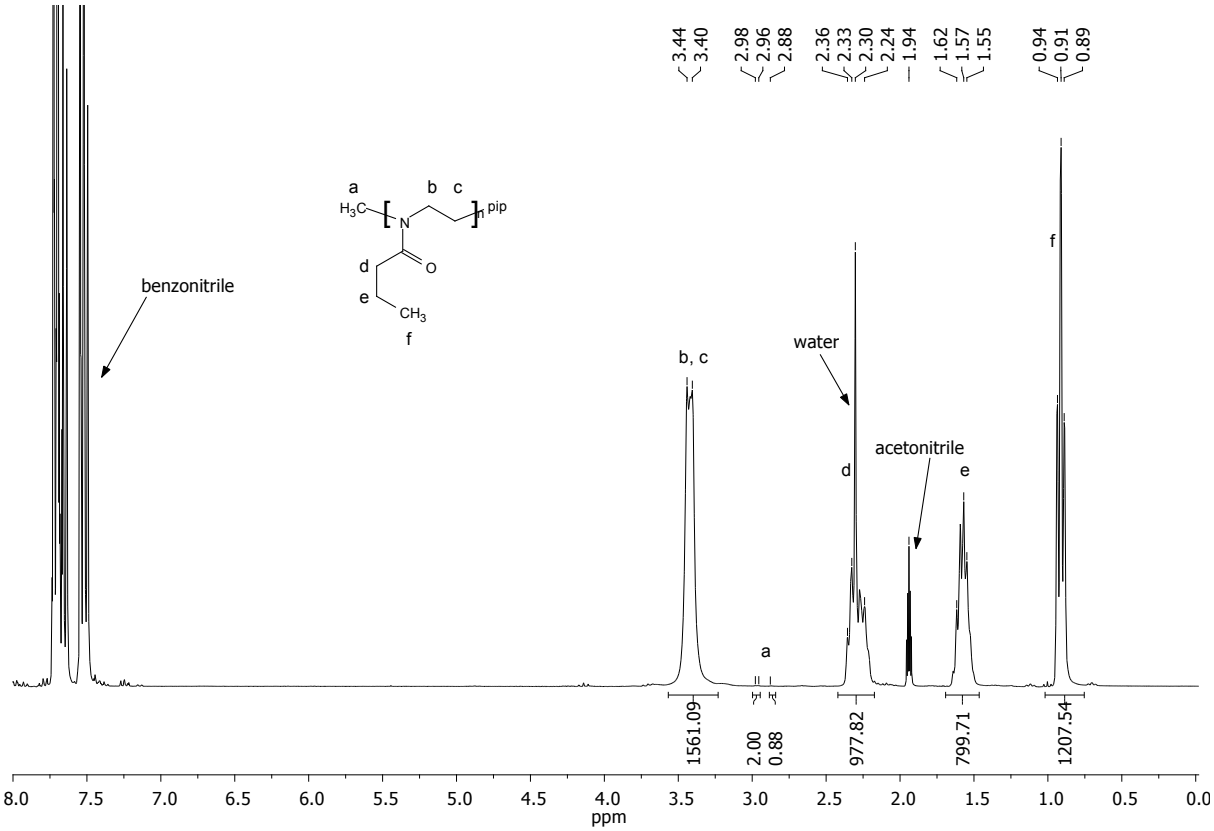

Figure S2. ^{1}H NMR of poly(2-propyl-2-oxazoline) (CD_3CN, 300 MHz) directly after the polymerization

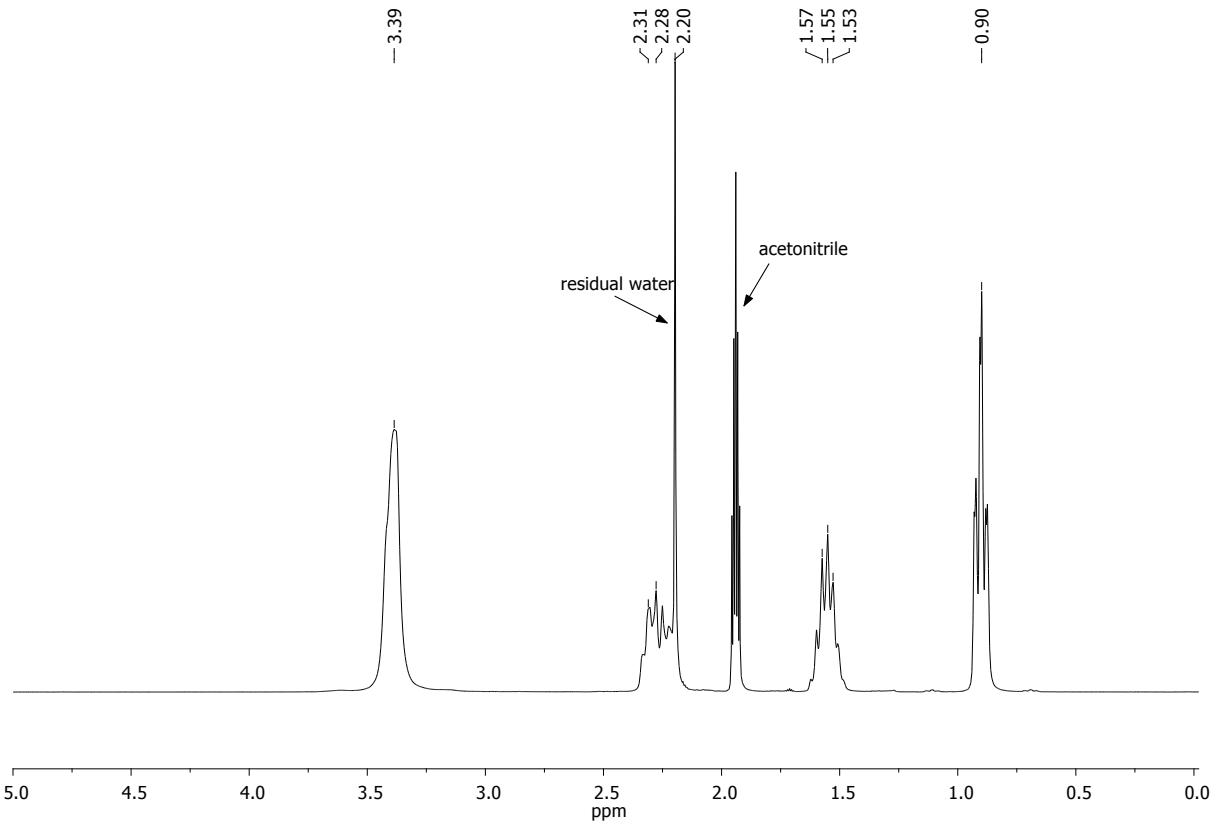

Figure S3. ^{1}H NMR of poly(2-propyl-2-oxazoline) (CD_3CN, 300 MHz) after dialysis against water

DMF GPC measurement:

Table S1. DMF GPC results

PMMA standard, triple calibration	
M_n (g/mol)	41720
M_w (g/mol)	54340
Đ	1.3

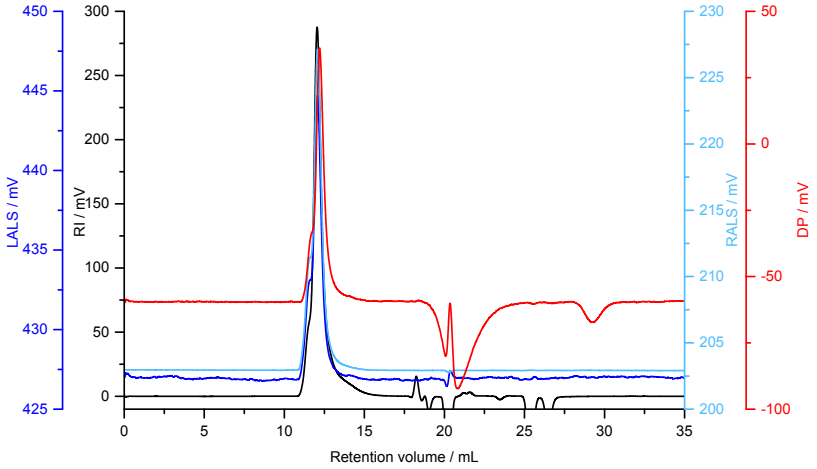

Figure S4. GPC trace of poly(2-propyl-2-oxazoline) in DMF (1 g/L LiBr)

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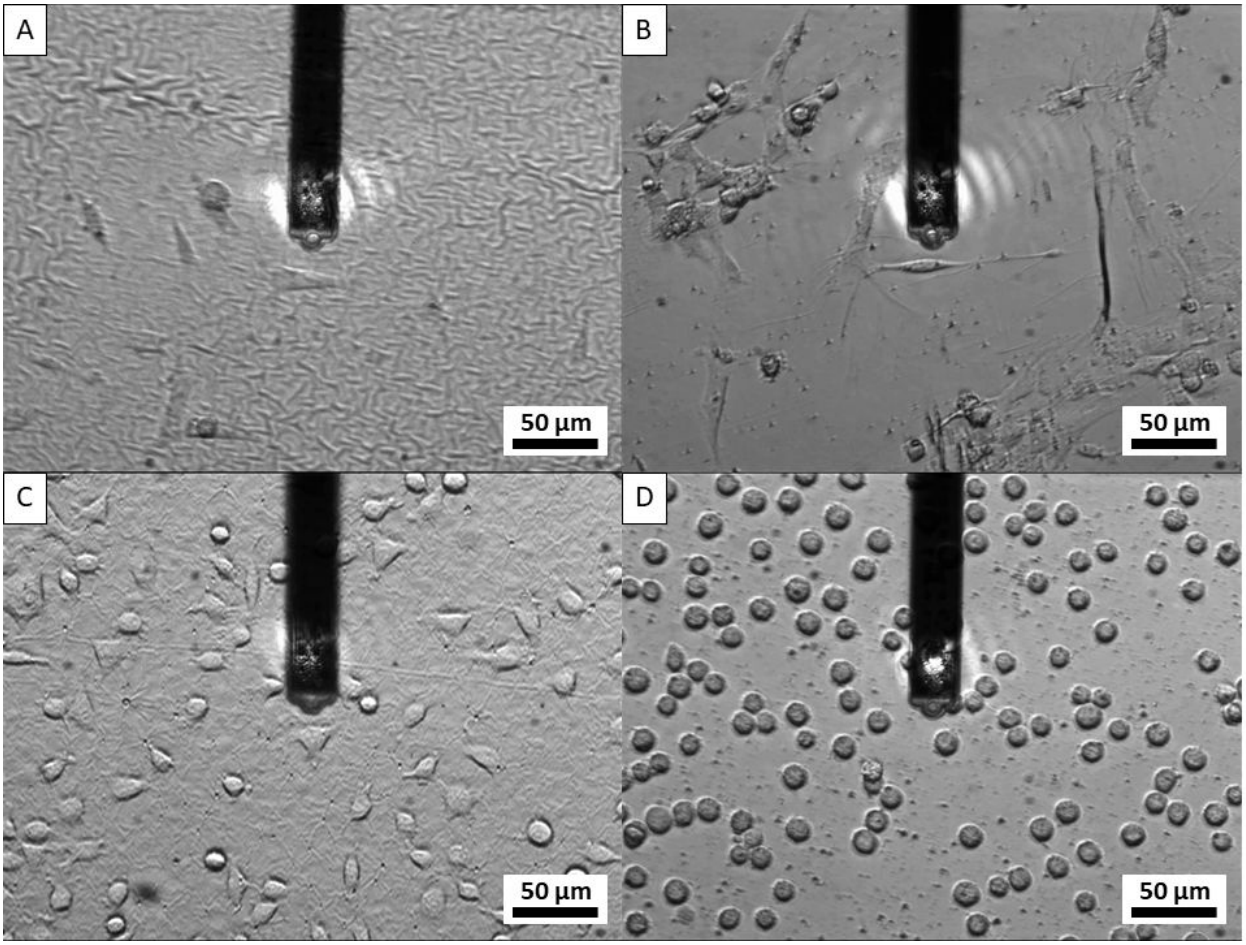

Figure S5. Cell-substrate adhesion force measurements using Fluidic Force Microscopy. (A) HMEC-1 seeded on PnPrOx-coating above its LCST. (B) HMEC-1 seeded on PnPrOx-coating after dissolving PnPrOx for 30 minutes at 14 °C. (C) L929 seeded on PnPrOx-coating above its LCST. (D) L929 seeded on PnPrOx-coating after dissolving PnPrOx for 30 minutes at 14 °C.

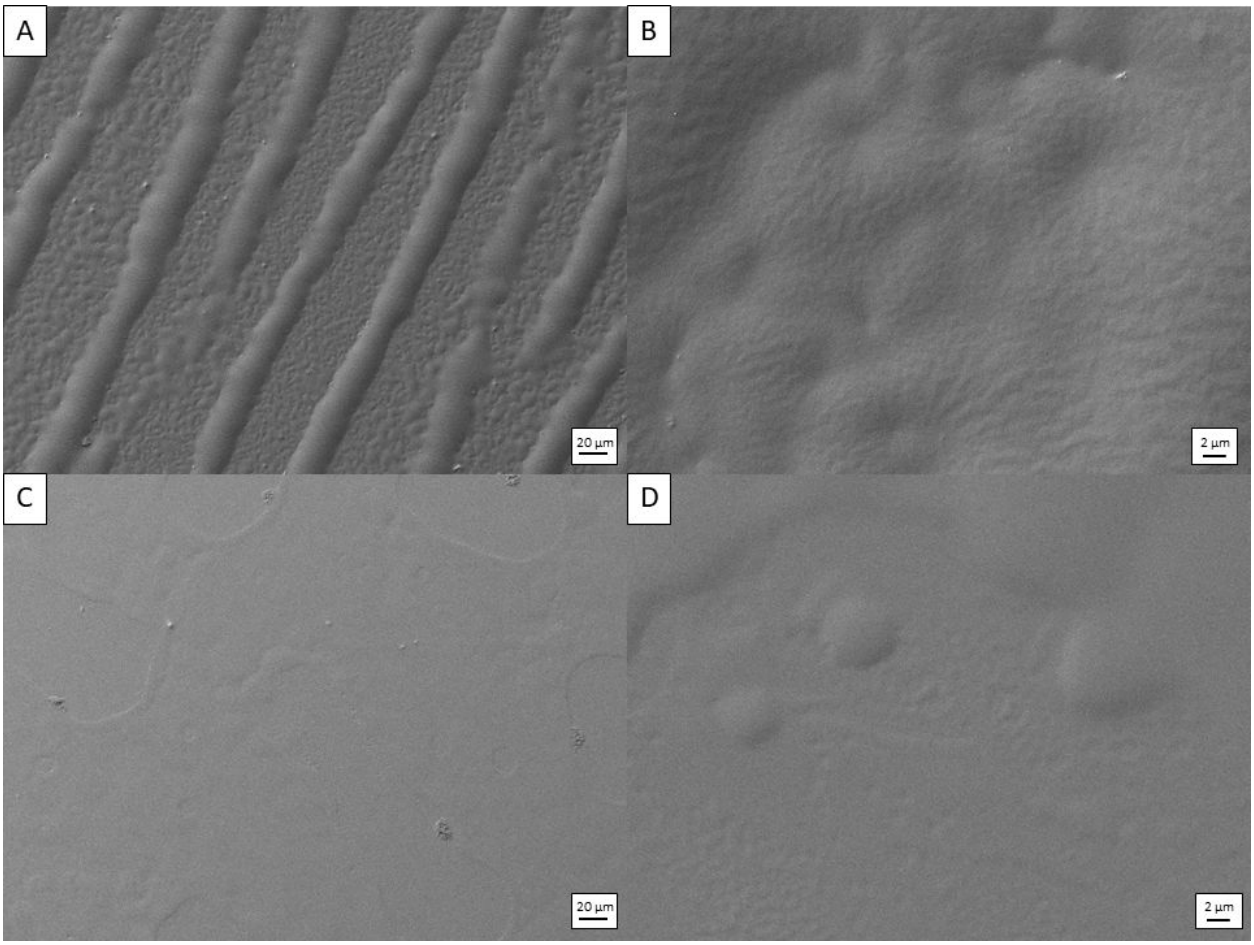

Figure S6. (A-B) SEM-image of surface created by deposition of PnPrOx in aqueous solution. (C-D) SEM-image of surface created by deposition of PnPrOx dissolved in ethanol.