CONTROLLING CELL ADHESION ON POLYURETHANES

T. Joseph Dennes and Jeffrey Schwartz^{*}

Department of Chemistry, Princeton University, Princeton, NJ 08544

E-mail: jschwart@princeton.edu

Supporting Information

Hydrolysis plots for (a) 12b and (b) 13b, and (c) calculation of sample surface loading.



(a) Hydrolysis of DANSYL-Cys from **12b** measured for a surface area of 5 cm².

(b) Hydrolysis of DANSYL-Cys from **13b** measured for a surface area of 3 cm². No increase in dissolved DANSYL-Cys was observed after 24 hours compared to control. The increase in the amount of fluorescent material after 150 h is due to release at pH 12.5 and is a measure of surface bound DANSYL-Cys at pH 7.5.



Sample calculation of spatial surface loading from molecular "footprint" and molar surface loading:

110 pmol RGDC/cm² = 6.6×10^{13} molecules RGDC/cm²

Assuming a 40 Å² "footprint" for an RGDC molecule, spatial coverage is 0.26 cm²/cm²,

or approximately 25 %.