

Table S1. Surface concentration of FBS adsorbed onto the different polyelectrolyte multilayer films

| Polyelectrolyte multilayer films | Changes in the resonance frequency, Δf, during FBS 10% deposition | Mass increment (ng cm⁻²) |
|---|---|--|
| Bare crystal (SiO ₂) | 38.0 | 672 |
| (PAH/PSS) ₂ /PAH | 45.9 | 812 |
| (PAH/PSS) ₄ /PAH | 57.3 | 1014 |
| (PAH/PSS) ₆ /PAH | 40.2 | 712 |
| (PLL/HA) ₄ /PLL | 47.8 | 846 |
| Mean value | 45.8 | 811 ± 166 |

Changes in the resonance frequency, Δf , during each adsorption step are measured.

The estimated error on the mean value of the mass increment corresponds to 95% confidence interval.