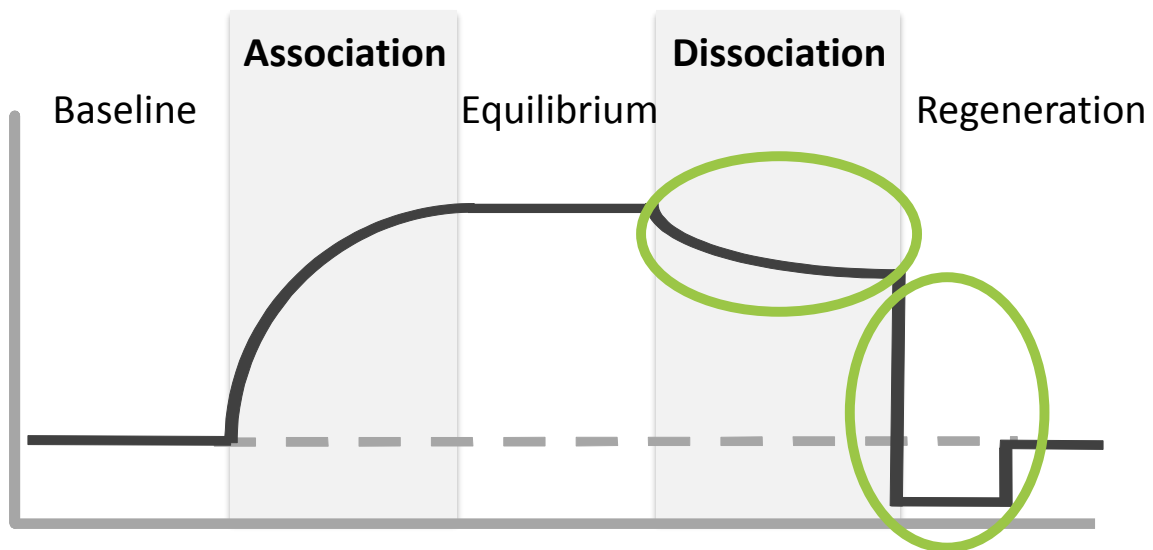


Sample Recovery

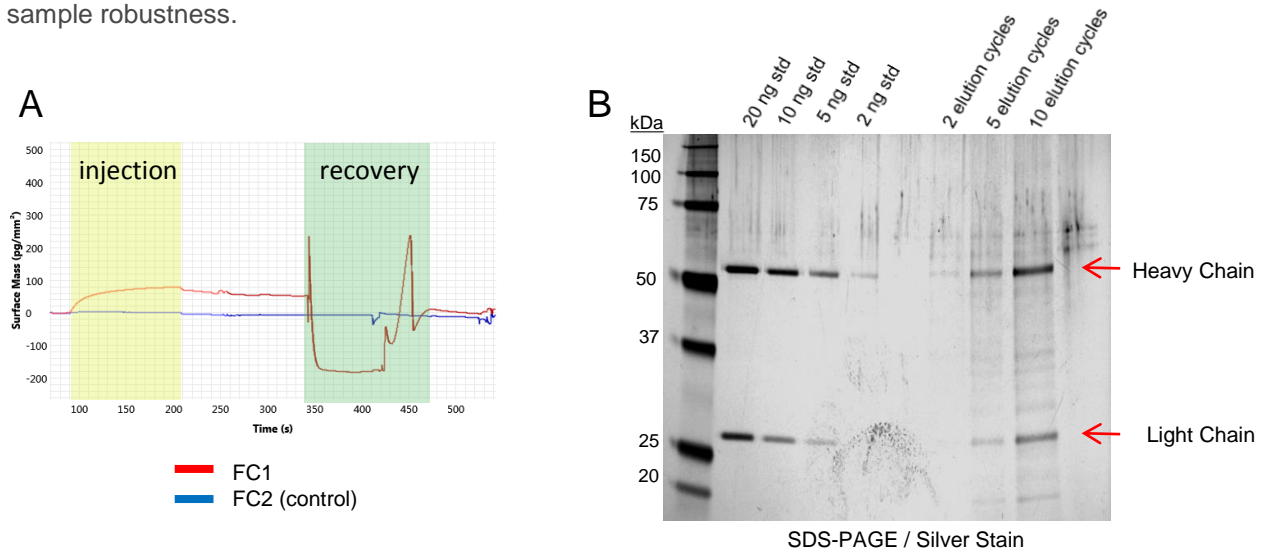
Creoptix™ WAVE



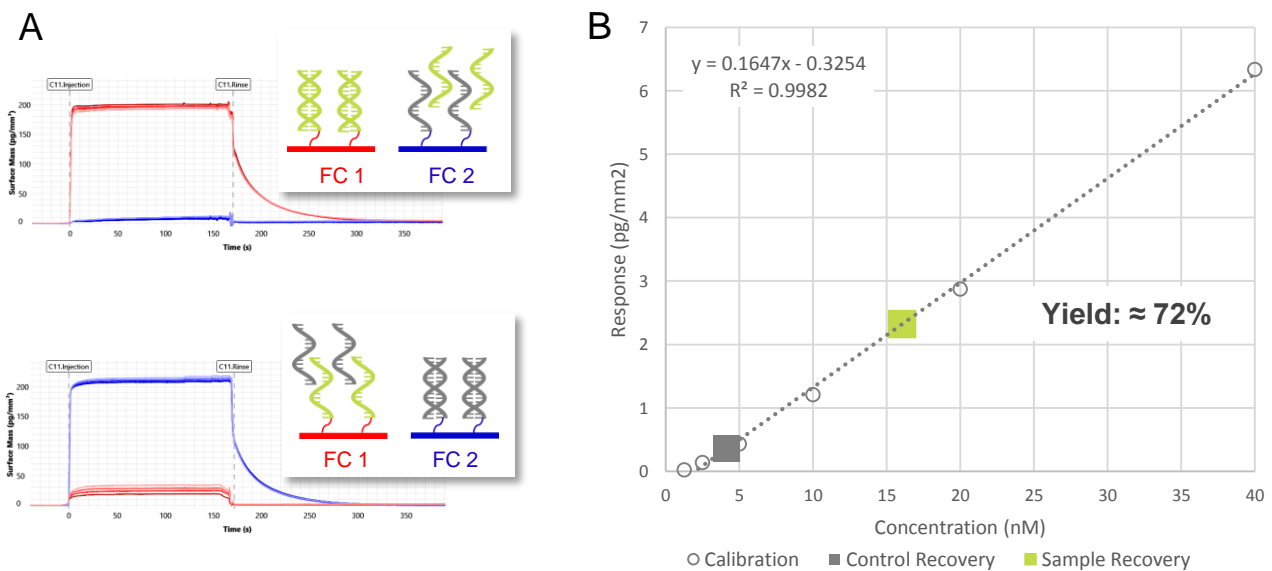
**Efficient sample recovery
during dissociation and
regeneration.**

Summary

Analytes are normally washed off and lost in surface-based label-free interaction analysis. Thanks to innovative fluidics and sample handling processes, the Creoptix™ WAVE enables efficient recovery of bound analytes in a regeneration step but also during dissociation. Recovered analytes are collected in the autosampler for further analysis, such as mass spectrometry or SDS-PAGE. This feature allows new possibilities in screening pooled compound libraries, mixtures of analytes, target deconvolution or quantification and identification of binders in human samples. The Creoptix™ WAVE is particularly suited for such sample recovery as it combines a very high sensitivity with a large surface area and a crude sample robustness.



Sample Recovery during Regeneration - (A) Anti-hlgG antibody was immobilized to capture human antibody of interest. Captured antibody was then eluted with glycine pH 2 and recovered in the autosampler (20 μ l each elution cycle). (B) Amount of recovered antibody fits well predictions of 1 ng/elution cycle for 100 pg/mm² surface mass on the 8 mm² surface.



Sample Recovery during Dissociation - (A) Two distinct ssDNA were immobilized on flow channel 1 (red) and 2 (blue), respectively, and exposed to ssDNA complementary to the ssDNA on either FC 1 (top) or FC 2 (bottom). (B) Molecules dissociating from FC1 were then recovered and quantified demonstrating a yield of more than 70% for these molecules at near zero cross-over.