

Complex coacervate core micelles as diffusional nanoprobe

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Diluted samples of free FITC and PAH-FITC were prepared to measure their diffusion by means of FCS. The autocorrelation curves were fitted with one and two components. The obtained diffusion times, τ' , can be converted into diffusion coefficients by using $D = W_{xy}^2/4\tau'$ with W_{xy} radial 1/e² radii. The values shown in the table suggest that there is no free FITC in the PAH-FITC sample.

Samples	1D		2D			
	τ' (us)	Rh (nm)	τ'_1 (us)	F'_1 (%)	τ'_2 (us)	F'_2 (%)
FITC	24	0.73	113759	1	21	99
PAH-FITC	52.5	1.59	53	82	54	28

Table S1: FCS data for free FITC and PAH-FITC in water. Data analysis was performed with one component (1D) or two components (2D). Diffusion time values τ' and the fractions F' are listed.