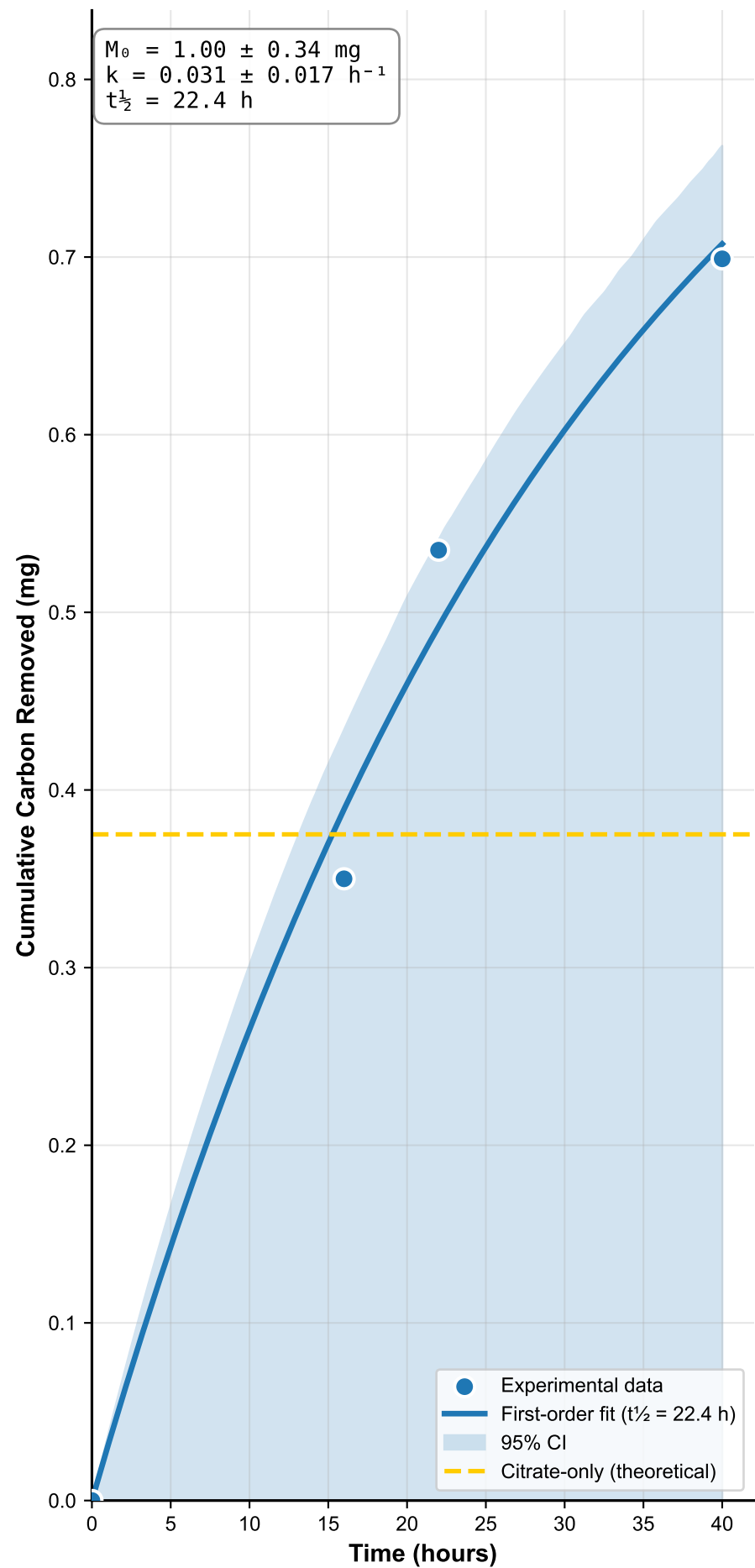
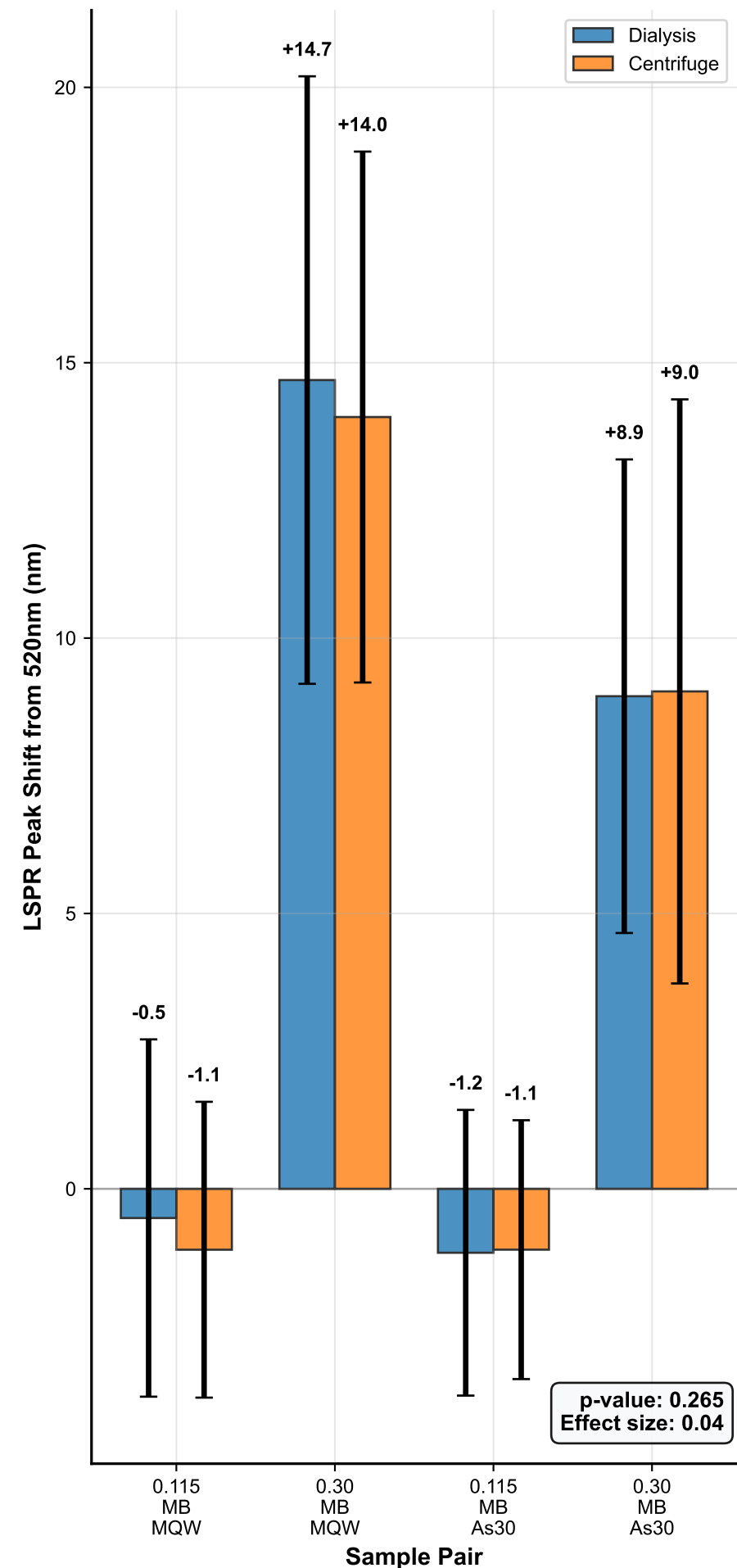


Figure 2: Comprehensive Dialysis vs Centrifugation Analysis

A. Kinetics of Purification



B. Method-Induced Spectral Shifts



C. Statistical Comparison

Metric	Dialysis (Mean±SEM)	Centrifuge (Mean±SEM)	p-value	Significant
Peak Shift (nm)	5.485±3.840	5.209±3.785	0.265	No
Peak Height	0.126±0.018	0.129±0.021	0.779	No
FWHM (nm)	0.000±0.000	0.000±0.000	nan	No
Red Tail	0.101±0.012	0.072±0.015	0.114	No
Baseline Noise	0.001±0.000	0.001±0.000	0.124	No
Peak Asymmetry	0.976±0.010	1.005±0.026	0.432	No

D. Quality Metrics Comparison

Sample	Method	Peak Pos. (nm)	Height	FWHM (nm)	Red Tail
0.115 MB MQW	Dialysis	519.5	0.149	0.0	0.097
	Centrifuge	518.9	0.165	0.0	0.049
0.30 MB MQW	Dialysis	534.7	0.084	0.0	0.091
	Centrifuge	534.0	0.094	0.0	0.100
0.115 MB As30	Dialysis	518.8	0.162	0.0	0.080
	Centrifuge	518.9	0.166	0.0	0.046
0.30 MB As30	Dialysis	528.9	0.111	0.0	0.134
	Centrifuge	529.0	0.090	0.0	0.094