



DEMONSTRATION

Precise and efficient Extracellular Vesicles purity detection with ExoPlorer Nano Flow Cytometer

Combining superior sensitivity, resolution, and throughput, the ExoPlorer delivers comprehensive insights across the full 5–3000 nm spectrum, enabling simultaneous size distribution mapping, bead-free absolute counting, and multi-parameter biochemical profiling. In this study, we underline the fact that reliable measurements of extracellular vesicles (EVs) concentrations are essential for biomarker research. Moreover, different instruments measure different sample concentrations. Using the ExoPlorer nano flow cytometer, we have been able to accurately measure EVs concentration and size. The Refractive Index (RI) of particles plays a critical role in determining measurement accuracy. Using the ExoPlorer Nano Flow Cytometer, we analyzed the same standard bead sample using different RI assumptions to systematically evaluate how RI selection affects particle size readouts.