

Supplementary Material

Interaction of nanodiamonds with bacteria

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Dynamic light scattering

Dynamic light scattering (DLS), a technique often referred to as photon correlation spectroscopy (PCS), is a common technique for determining particle size in colloidal suspensions. In this study, DLS measurements were performed using a Malvern ZetaSizer Nano system (Malvern Instruments Ltd., Malvern, UK, www.malvern.com) to determine the hydrodynamic diameter of the particles. The ZetaSizer measures the size of suspended colloidal particles by determining their Brownian motion using DLS. We prepared the samples by dispersing the FNDs (125 nm, 75 nm, 25 nm and 18 nm) at the concentration of 100 µg/mL in DI water, then analyzed by DLS at room temperature. Figure S1. shows size distribution by intensity of these measurements.

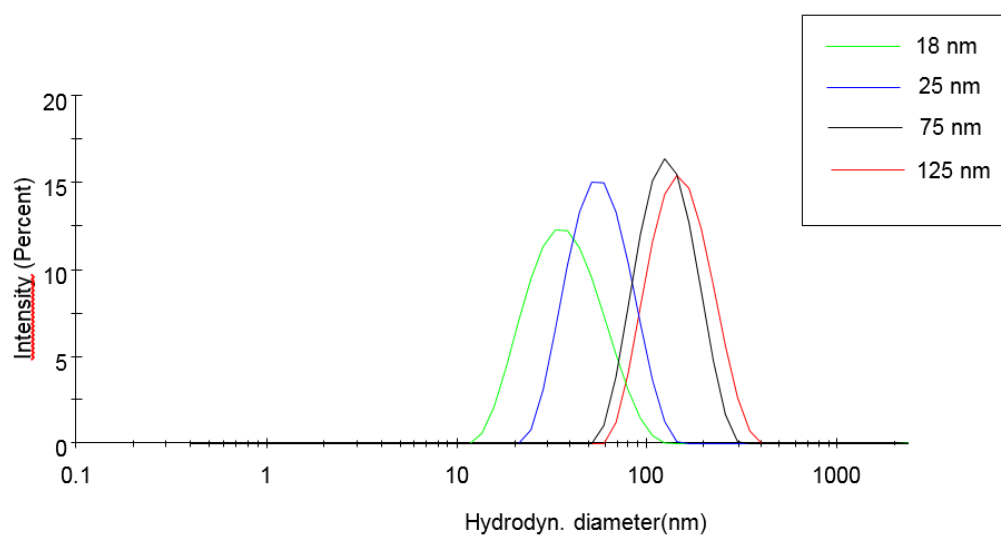


Figure S1. DLS size distribution curves of FNDs prepared in DI water