

Green Fluorescent Nanodiamond

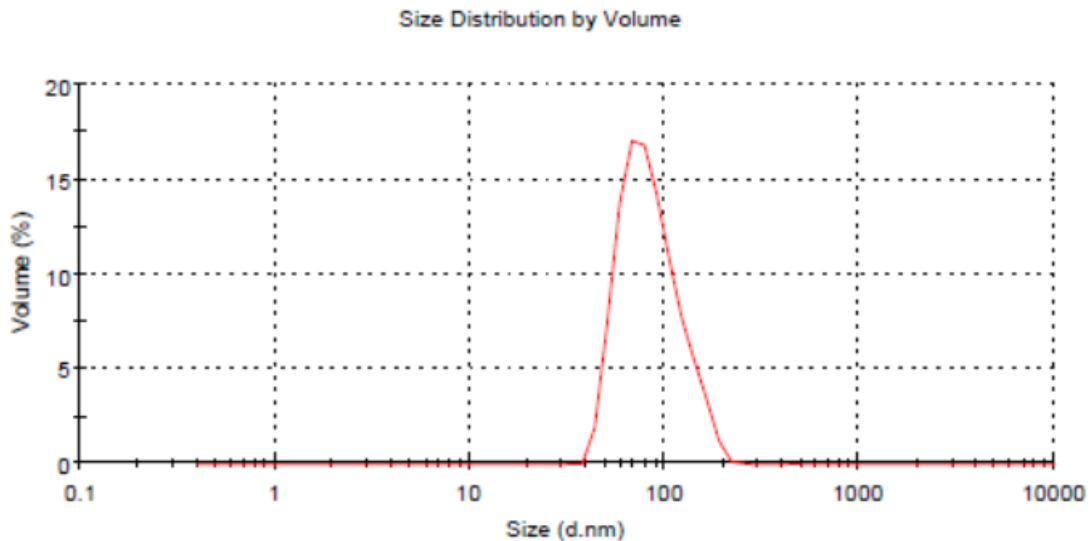
ND-NVN-70nm

>60NVN/particle, no photobleaching, no photoblinking

average size particle 70nm, suspension in DI H₂O 1mg/ml,

Carboxylic surface groups; zeta potential -35mV

1. Volumetric particle size distribution (DLC measurement using Malvern Instrument Nano-ZS).



2. Photoluminescent intensity spectra. Measurements were done using a Princeton Instruments Isoplane SCT320 Spectrograph and PIXIS 100 CCD camera. The excitation wavelength was 442 nm, laser power at the sample 100mW, exposure time 100 ms, 10 exposures per frame, grating 150g/mm, blaze 500nm, center wavelength 711nm. Measurements were done for 0.1% slurry in DI water.

