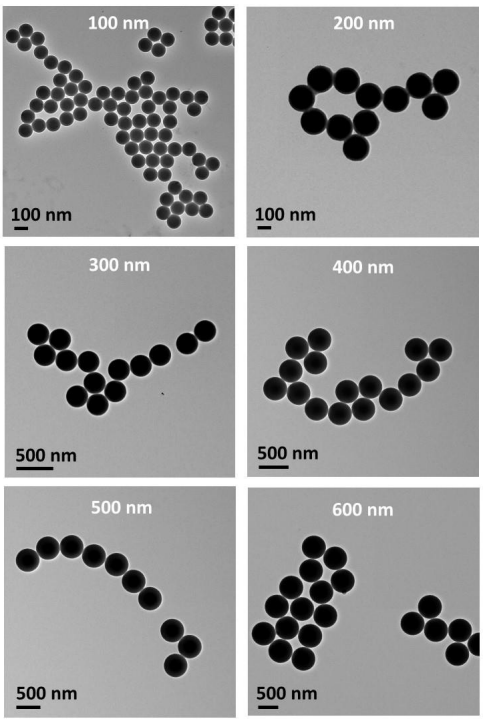
Red Carboxyl Fluorescent Nanoparticles

Ocean NanoTech's europium chelated carboxylate fluorescent microspheres are monodispersed beads. They have a broad Stokes Shift and a very long lifetime (milliseconds). The extended lifetime enables the europium chelate beads to be used in a wide range of time resolved fluorescence applications, including lateral flow assays, nucleic acid hybridizations, and immune/ histological research. Compared to conventional fluorophores, use of these europium beads could lower detection limit of an assay by several folds, as they have higher fluorescence intensity and eliminate background interference from relatively short-lived matrix fluorescence. Features of these beads are:

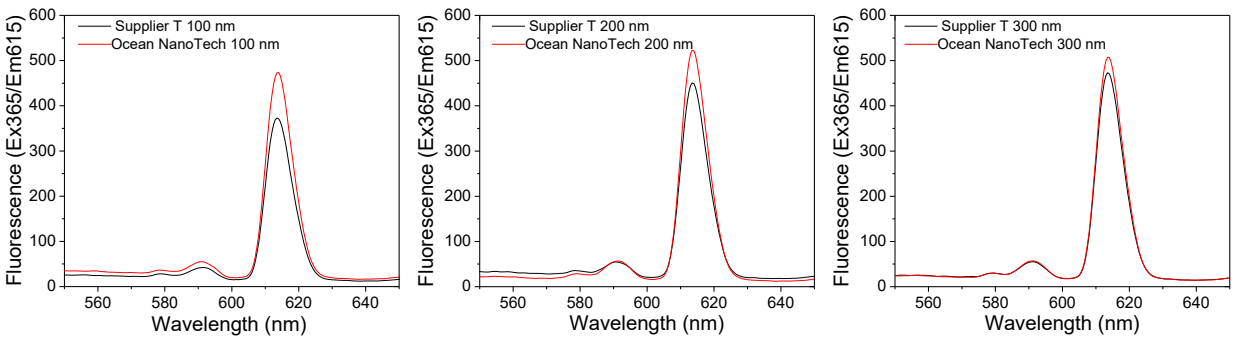
- Maximum color brightness and saturation for optimum sensitivity and readability of the assay
- Encapsulated dye prevents leaching in aqueous media
- Effective adsorption or covalent coupling of immunoglobulin G for binding of target antigens
- Large Stocks Shift and long lifetime provide extremely low background
- Multiple sizes (100 nm, 200 nm, 300 nm, 400 nm, 500 nm, 600 nm) fit to different applications



TEM images of Europium Chelate (Eu) Carboxylate Microspheres offered by Ocean Nanotech

Available Products:

Catalogue Number	Size	Emission Wavelength	Unit Size
F61501	100 nm	615 nm	2 mL, 10 mL
F61502	200 nm	615 nm	2 mL, 10 mL
F61503	300 nm	615 nm	2 mL, 10 mL
F61504	400 nm	615 nm	2 mL, 10 mL
F61505	500 nm	615 nm	2 mL, 10 mL
F61506	600 nm	615 nm	2 mL, 10 mL



Comparison of Fluorescence with Supplier T

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