

Green Carboxyl Fluorescent Nanoparticles

Product Overview

Ocean NanoTech provides monodispersed, polystyrene-based microspheres with size ranging from 167 nm to 500 nm. The photostable fluorescent dyes are physically encapsulated in the microspheres, which prevents dye leaching. These fluorescent microspheres have a carboxylic acid functionalized surface for target protein or ligand immobilization. These microspheres are a critical material for cludlin

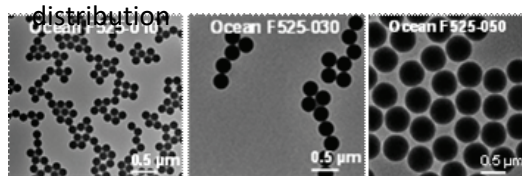
Applications

Fluorescent microspheres are a critical material for a wide range of applications, such as:

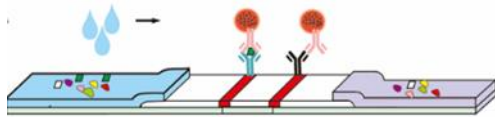
- Quantitative lateral flow assays
- Blood flow determination
- Tracing
- In vivo imaging and calibration of imaging
- Flow cytometry instruments

Features

- Carboxylate microspheres
- 150 nm, 300 nm and 500 nm
- Emission at 525 nm and excitation at 470 nm
- Low non-specific binding
- High colloidal stability
- High photostability
- Narrow size distribution



TEM images of fluorescent microspheres at different sizes

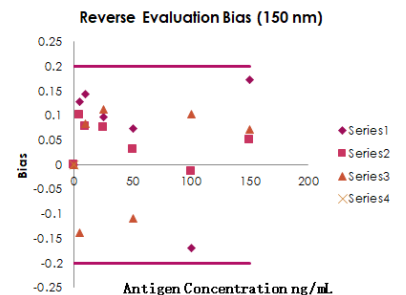
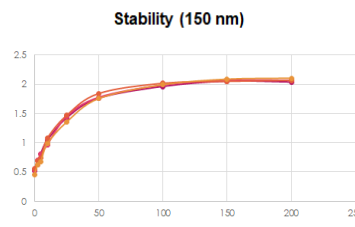
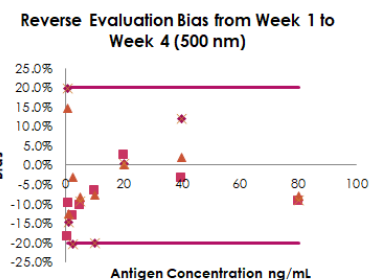
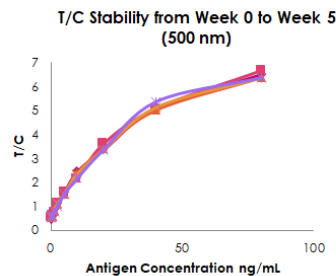
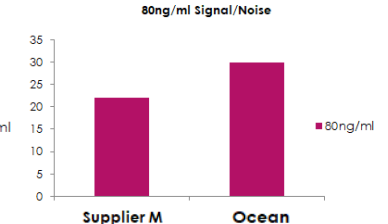
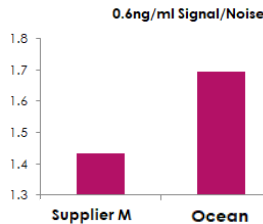
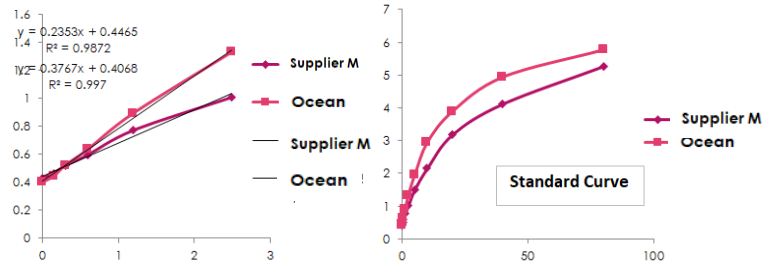


Assay

Assay	Sensitivity
Aflatoxin B1	0.42 pg/mL
Zearalenone	62,5 pg/mL
HBV antigen	75 pg/mL
Malaria parasite	6 parasites/uL blood

Publication

ACS Applied materials: 2014, 6, 14215
 Talanta: 2015, 132, 126
 Talanta, 2015 142, 145
 CJAC 2015, 343



Catalogue Number	Size (nm)	Emission Wavelength (nm)	Unit Size (mL)
F52501-10	167	525	10
F52501-100	167	525	100
F52502-10	300	525	10
F52502-100	300	525	100
F52503-10	500	525	10
F52503-100	500	525	100