

Fluorescent Polystyrene Microspheres

Product Data Sheet

Product Description:

Fluorescent Polystyrene microspheres and nanoparticles are frequently used in imaging and diagnostic applications to detect binding events or signal enhancement. Fluorescent microspheres can also be used for fluid tracing, fluid mechanics studies, cell tracking, phagocytosis studies, latex agglutination tests, fluorescence microscopy, instrument calibration, and biomedical technology research. Our standard fluorophores are Green (460/500 nm), Orange (530/582 nm), and Near-IR (780-820 nm). See the spectrums below.

Near-IR nanoparticles are those having excitation and emission wavelengths over 750nm. Near-IR light has deep penetration and does less damage to tissue and thus is widely used in optical imaging.

Many of our polystyrene fluorescent microspheres are offered with carboxyl functionalized surface groups (primary amine groups are also available on a custom basis). These surface modified microspheres are suitable for the covalent attachment of proteins, peptides, and nucleic acids.

Additionally, on a custom basis these microspheres can be coated with a variety of molecules such as ligands, nucleic acids, peptides, or antigens.

Characteristics:

Size Range: 100nm - 500µm

Density: 1.05-1.06 g/ml

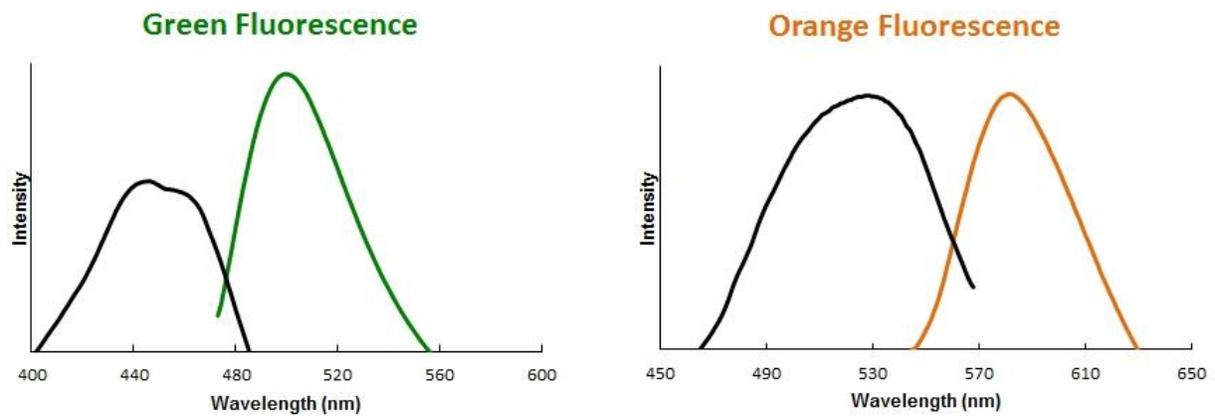
Packaging Information:

All polystyrene fluorescent particles are supplied as 1% solid suspensions (10mg/ml). Minimum package size is 1ml.

Suspension Solution:

De-ionized water containing a small amount of surfactant and 2mM of sodium azide as an anti-microbial agent.

Fluorophores:



Product Stability, Storage and Specifications:

This product should be stored at 2-8°C. Do not freeze! Protect from light.

Product Use:

Sonicate/Vortex the microspheres before each use.

These products are for research and manufacturing use only and are not intended for use in humans, therapeutic or diagnostic purposes. Sales are without any seller's warranty or representation, expressed or implied, by usage or otherwise; no claims beyond replacement of unacceptable material or refund of purchase price shall be allowed. All claims must be made within 30 days following date of delivery.