

0.05µm Flash Red Fluorescent Polystyrene Microspheres

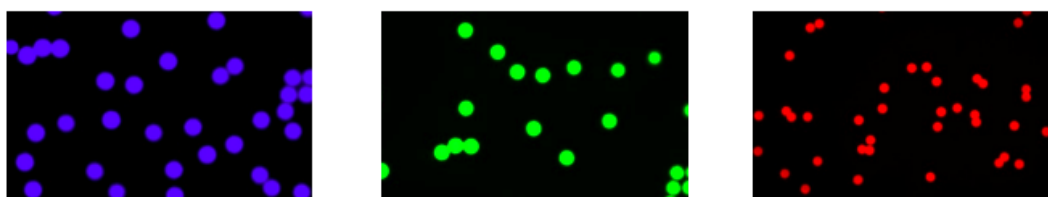
Cat. NO.	Diameter	Surface	Fluorescence	Excitation	Emission	Unit Size
FSFR005	0.05µm	-COOH	Flash Red	660nm	680nm	1ml, 2ml, 3ml

Description

Fluorescent polystyrene microspheres are microspheres containing bright fluorescent dyes, which are frequently used in imaging and diagnostic applications to detect binding events or signal enhancement. The fluorescent dyes are embedded inside the microspheres, which can effectively prevent fluorescence quenching and reduce the influence of environmental factors on the fluorescence intensity; at the same time, the surface of the microspheres remains original. Some functional groups will not affect immunoassay and detection. This range of particle emission wavelengths covers the entire visible wavelength range from 460 nm to 750 nm (excitation wavelengths are typically 30 – 40 nm lower than emission wavelengths). Fluorescent polystyrene microspheres can be widely used in lateral flow chromatography, phagocytosis research, pore size determination, biochip, microfluidics and biomedical technology research.

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.

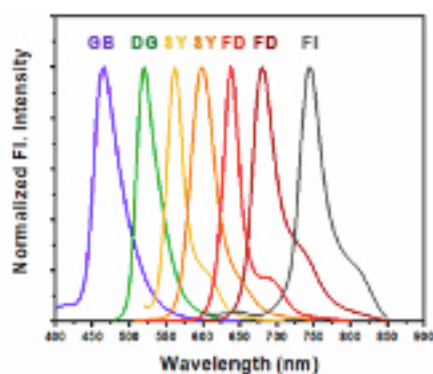
Additionally, on a custom basis these microspheres can be coated with a variety of molecules such as ligands, nucleic acids, peptides, or antigens.



Characteristics

Material	Polystyrene (PS)
Size Range	0.05–25 µm
Percentage by weight	1.0% w/v
Suspension Solution	Pure water (with 0.05% w/v Proclin® 300)

Fluorophores



Fluorescence	Excitation (nm)	Emission(nm)
Glacial Blue	430	460
Dragon Green	495	515
Surf Yellow	540	560
Suncoast Yellow	560	605
Far-Out Red	625	640
Flash Red	660	680

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.

Related Product

Cat. NO.	Fluorescence	Nominal Diameter	Excitation (nm)	Emission(nm)
FSDG005	Dragon Green	0.05µm	495	515
FSGB005	Glacial Blue	0.05µm	430	460
FSFR005	Flash Red	0.05µm	660	680
FSDG010	Dragon Green	0.10µm	495	515
FSGB010	Glacial Blue	0.10µm	430	460
FSFR010	Flash Red	0.10µm	660	680
FSDG020	Dragon Green	0.20µm	495	515
FSSFY020	Surf Yellow	0.20µm	550	570
FSSY020	Suncoast Yellow	0.20µm	560	605
FSFOR020	Far-Out Red	0.20µm	625	640
FSFR020	Flash Red	0.20µm	660	680
FSDG050	Dragon Green	0.50µm	495	515

FSFR050	Flash Red	0.50μm	660	680
FSSY050	Suncoast Yellow	0.50μm	560	605
FSDG100	Dragon Green	1.00μm	495	515
FSEG100	Envy Green	1.00μm	525	565
FSFR100	Flash Red	1.00μm	660	680
FSDG200	Dragon Green	2.00μm	495	515
FSFR200	Flash Red	2.00μm	660	680
FSDG400	Dragon Green	4.00μm	495	515
FSEG400	Envy Green	4.00μm	525	565
FSFR400	Flash Red	4.00μm	660	680
FSDG750	Dragon Green	7.50μm	495	515
FSSY750	Suncoast Yellow	7.50μm	560	605
FSFR750	Flash Red	7.50μm	660	680
FSEG1000	Envy Green	10.0μm	525	565
FSDG1500	Dragon Green	15.00μm	495	515
FSDG2500	Dragon Green	25.00μm	495	515



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