

## 1.00µm Flash Red Fluorescent Polystyrene Microspheres

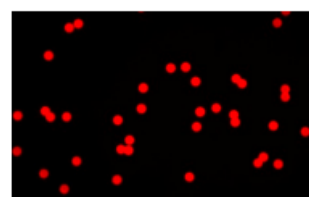
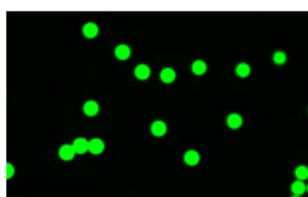
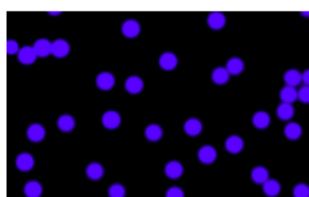
| Cat. NO. | Diameter | Surface | Fluorescence | Excitation | Emission | Unit Size     |
|----------|----------|---------|--------------|------------|----------|---------------|
| FSFR100  | 1.00µm   | -COOH   | Flash Red    | 660nm      | 680nm    | 1ml, 2ml, 3ml |

### 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.

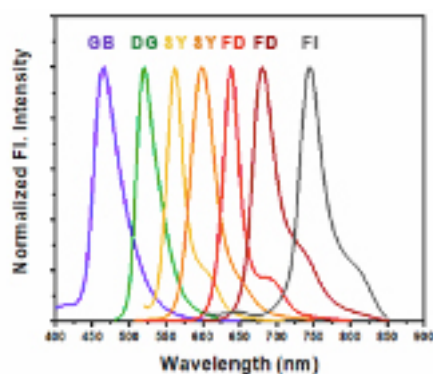
Additionally, on a custom basis these microspheres can be coated with a variety of molecules such as ligands, nucleic acids, peptides, or antigens.



### 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 |



Biopatchina Inc., 8219 BioLegend Way, SanDiego, CA 92121 [www.biopatchchina.com](http://www.biopatchchina.com)

Toll-Free Phone: 1-833-Biopatchchina (243-5333) Phone: (858) 763-5400 Fax: (877) 453-9537

Biopatchina Inc., 833 Times E-PARK, Guangzhou, China CN 511495

Toll-Free Phone: 86-20-Biopatchchina (3884-9565) Fax: (86-20) 3884-9663