



## Green PS Fluorescent Particles-Biotin PRODUCT DATA SHEET

### Green PS Fluorescent Particles-Biotin

#### Description

Fluorescent Polystyrene Particles are prepared by either incorporation of selected fluorophores into monodisperse polystyrene particles by means of swelling processes or by copolymerization of styrene with various organic fluorescent dyes, these processes generate fluorophores labeled polystyrene particles with favorable properties.

For custom sizes, formulations or bulk quantities please contact our customer service department.

website: [www.abvigen.com](http://www.abvigen.com) Phone: +1 929-202-3014 Email: [info@abvigenus.com](mailto:info@abvigenus.com)

#### Characteristics

Concentration: 10 mg/ml

Size: 10 ml; 20 ml

Surface: Biotin

Shape: Spherical

Density: 1.03 g/ccm

Composition: Green Fluorescent Polystyrene Particles

Excitation: 488 nm

Emission: 518 nm

Buffer: DI Water

Form: Suspension

Store: Storage at 2 - 8 °C

#### Storage

This product should be stored at 4°C. **DO NOT FREEZE.**

#### Highlights

Monodisperse particles

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High particle size uniformity

High-intensity fluorescence

Outstanding long-term stability under proper storage conditions (both color and fluorescence)

Spherical shape

Great resistance to photobleaching

Minimized dye leaching

Suitable for uses in flow cytometry, fluorescence microscopy, phagocytosis studies and cell labeling

**For 10 mg/ml of Fluorescent Particles**

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
25 nm	10	1.19E+14	1.19E+15	10 um	10	1.85E+06	1.85E+07
50 nm	10	1.48E+13	1.48E+14	20 um	10	2.32E+05	2.32E+06
100 nm	10	1.85E+12	1.85E+13	30 um	10	6.87E+04	6.87E+05
200 nm	10	2.32E+11	2.32E+12	40 um	10	2.90E+04	2.90E+05
300 nm	10	6.87E+10	6.87E+11	50 um	10	1.48E+04	1.48E+05
400 nm	10	2.90E+10	2.90E+11	60 um	10	8.58E+03	8.58E+04
500 nm	10	1.48E+10	1.48E+11	70 um	10	5.41E+03	5.41E+04
600 nm	10	8.58E+09	8.58E+10	80 um	10	3.62E+03	3.62E+04
700 nm	10	5.41E+09	5.41E+10	90 um	10	2.54E+03	2.54E+04
800 nm	10	3.62E+09	3.62E+10	100 um	10	1.85E+03	1.85E+04
900 nm	10	2.54E+09	2.54E+10	200 um	10	2.32E+02	2.32E+03
1 um	10	1.85E+09	1.85E+10	300 um	10	6.87E+01	6.87E+02
2 um	10	2.32E+08	2.32E+09	400 um	10	2.90E+01	2.90E+02
3 um	10	6.87E+07	6.87E+08	500 um	10	1.48E+01	1.48E+02
4 um	10	2.90E+07	2.90E+08	600 um	10	8.58E+00	8.58E+01
5 um	10	1.48E+07	1.48E+08	700 um	10	5.41E+00	5.41E+01
6 um	10	8.58E+06	8.58E+07	800 um	10	3.62E+00	3.62E+01
7 um	10	5.41E+06	5.41E+07	900 um	10	2.54E+00	2.54E+01
8 um	10	3.62E+06	3.62E+07	1 mm	10	1.85E+00	1.85E+01

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9 um	10	2.54E+06	2.54E+07	3 mm	10	6.87E-02	6.87E-01
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### Polystyrene Particles Centrifugation Parameters

Particle Size	Centrifugal Acceleration	Time	Resuspension of Pellet
50 nm	45,000 x g	30 min	30 min sonication / vortex
100 nm	45,000 x g	30 min	30 min sonication / vortex
200 nm	45,000 x g	30 min	30 min sonication / vortex
500 nm	45,000 x g	20 min	10 min sonication / vortex
800 nm	10,000 x g	20 min	10 min sonication / vortex
1 µm	3,500 x g	15 min	10 min sonication / vortex
2 – 4 µm	1,600 x g	15 min	vortex
5 - 8 µm	1,200 x g	10 min	vortex
> 8 µm	25 x g	10 min	vortex

### Ordering Information

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