



PRODUCT DATA SHEET

Streptavidin Green Fluorescent Particles

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 Phone: +1 929-202-3014 Email: info@abvigenus.com

Characteristics

Concentration: 10 mg/ml

Size: 5 ml; 10 ml; 20 ml

Surface: Streptavidin

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**. If stored unopened and as specified, Abvigen Polystyrene Particles are stable for at least 12 months.

Highlights

Monodisperse particles from polystyrene

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

Offered with streptavidin on the surface for binding of biotinylated molecules

For 10 mg/ml of Streptavidin Green 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
9 um	10	2.54E+06	2.54E+07	3 mm	10	6.87E-02	6.87E-01



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 μ m	3,500 x g	15 min	10 min sonication / vortex
2 – 4 μ m	1,600 x g	15 min	vortex
5 - 8 μ m	1,200 x g	10 min	vortex
> 8 μ m	25 x g	10 min	vortex

Ordering Information

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