



Carboxyl Polystyrene Particles-AF647

PRODUCT DATA SHEET

Carboxyl Polystyrene Particles-AF647

Description

Abvigen has developed a large selection of polystyrene micro- and nanoparticles. Polystyrene particles and Microparticles are highly spherical plastic particles in sizes between 50 nm to 100 um. The polystyrene particles are prepared by using emulsion polymerization process. Coated or conjugated particles are prepared either by passive adsorption or covalent coupling.

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

Core diameter: 50 nm -100 um

Size: 5 ml; 10 ml

Shape: Spherical

Density: 1.05 g/ccm

Functional Group: Carboxyl

Composition: Polystyrene Particles

Ex (nm): 650 nm

Em (nm): 671 nm

Buffer: DI Water

Form: Suspension

Store: Storage at 2 - 8 °C. **DO NOT FREEZE.**

Storage

This product should be stored at 2-8°C. **DO NOT FREEZE.**

Highlights

Highly monodisperse

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Reproducibility

Stable and resistant to aggregation

Versatility

Highly uniform in size and shape

Easy visualization

Low toxicity with good biocompatibility

For 10 mg/ml of PS 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

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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 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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