



Polystyrene Particles-Collagen I PRODUCT DATA SHEET

Polystyrene Particles-Collagen I

Description

Abvigen has developed a large selection of polystyrene micro- and nanoparticles. Polystyrene particles and Microparticles are highly spherical plastic particles in sizes between 20 nm to 3 mm. 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

Concentration: 1 mg/ml

Shape: Spherical

Composition: Polystyrene Particles

Functional Group: Collagen I

Buffer: PBS

Form: Suspension

Colour: White

Store: Storage at 2 - 8 °C

Storage

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

Highlights

Superior size distribution compared to the leading competitor; available from 20 nm to 3 mm

Size Standards

1378 US-206 Ste 6-126, Skillman, NJ USA

info@abvigenus.com

Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Reserved

Email:

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Exceptional protein binding characteristics

Available with multiple surface functionalities to suit all your needs

For 1 mg/ml of Polystyrene Particles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
25 nm	1	1.16E+14	1.16E+14	10 um	1	1.82E+06	1.82E+06
50 nm	1	1.46E+13	1.46E+13	20 um	1	2.27E+05	2.27E+05
80 nm	1	3.55E+12	3.55E+12	30 um	1	6.74E+04	6.74E+04
100 nm	1	1.82E+12	1.82E+12	40 um	1	2.84E+04	2.84E+04
200 nm	1	2.27E+11	2.27E+11	50 um	1	1.46E+04	1.46E+04
300 nm	1	6.74E+10	6.74E+10	60 um	1	8.42E+03	8.42E+03
400 nm	1	2.84E+10	2.84E+10	70 um	1	5.30E+03	5.30E+03
500 nm	1	1.46E+10	1.46E+10	80 um	1	3.55E+03	3.55E+03
600 nm	1	8.42E+09	8.42E+09	90 um	1	2.50E+03	2.50E+03
700 nm	1	5.30E+09	5.30E+09	100 um	1	1.82E+03	1.82E+03
800 nm	1	3.55E+09	3.55E+09	200 um	1	2.27E+02	2.27E+02
900 nm	1	2.50E+09	2.50E+09	300 um	1	6.74E+01	6.74E+01
1 um	1	1.82E+09	1.82E+09	400 um	1	2.84E+01	2.84E+01
2 um	1	2.27E+08	2.27E+08	500 um	1	1.46E+01	1.46E+01
3 um	1	6.74E+07	6.74E+07	600 um	1	8.42E+00	8.42E+00
4 um	1	2.84E+07	2.84E+07	700 um	1	5.30E+00	5.30E+00
5 um	1	1.46E+07	1.46E+07	800 um	1	3.55E+00	3.55E+00
6 um	1	8.42E+06	8.42E+06	900 um	1	2.50E+00	2.50E+00
7 um	1	5.30E+06	5.30E+06	1 mm	1	1.82E+00	1.82E+00
8 um	1	3.55E+06	3.55E+06	3 mm	1	6.74E-02	6.74E-02
9 um	1	2.50E+06	2.50E+06				

Polystyrene Particles Centrifugation Parameters

Particle Size	Centrifugal Acceleration	Time	Resuspension of Pellet
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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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