



PRODUCT DATA SHEET

Biotin Fluorescent Particles

Description

Abvigen offers a wide variety of fluorescent particles coated with antibodies, Avidin, Biotin, Protein A and Protein G for the convenience of our customers.

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 -7.9 um

Size: 5 ml

Concentration: 1 mg/ml

Surface: Biotin

Shape: Spherical

Density: 1.03 g/ccm

Composition: Fluorescent Polystyrene Particles

Form: Suspension

Store: Storage at 2 - 8 °C

Storage

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

Highlights

Beneficial to bioimaging and biosensing applications

Uniform and stable fluorescence

Available with functional groups for covalent binding

For 1 mg/ml of 0.1% w/v PS Fluorescent Particles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
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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
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

website: www.abvigen.com

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Email: info@abvigenus.com