



PRODUCT DATA SHEET

Streptavidin Silica Particles

Description

Silica Particles are spherical in shape and can be made to have a broad range of sizes and their surface chemistry easily modified to target a variety of applications.

Abvigen offers a comprehensive list of basic, coated, functional and conjugated silica particles with uniform size and shapes. Our silica particles in the size range of 10 nm to 200 μ m are monodisperse and nonporous particles with a density of 1.8 g/cm³.

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

Diameter: 100 nm -20 μ m

Size: 10 ml; 20 ml; 50 ml; 100 ml; 500 ml

Concentration: 25 mg/ml; 50 mg/ml

Composition: Silica Particles

Density: 1.8 g/ccm

Shape: Spherical

Functional Group: Streptavidin

Buffer: DI Water

Form: Suspension

Colour: white

Highlights

Not Displaceable: strongly bound to the particle surface

Negatively Charged

Highly uniform size and shapes

Wide size ranges from 100 nm -20 μ m

Dispersive in a wide range of solvents with a high degree of stability

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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Various surface properties: coated, functionalized and conjugated

Designed for the covalent binding of proteins, antibodies or other molecules

Allows engineering of controlled aggregates

Applications

Photothermal applications

Color applications

Controlled aggregation

Protein adsorption and separation

Nucleic acid detection and purification

Drug and gene delivery

Imaging contrast agents construction

Biodiagnostic and nanomedicine applications

Storage

This product should be stored at room temperature. **DO NOT FREEZE**. If stored unopened and as specified, Abvigen Streptavidin Silica Particles are stable for at least 12 months.

NPS of Silica Particles, 25 mg/ml

Diameter	Concentration	Particles/mg	Particles/ml	Diameter	Concentration	Particles/mg	Particles/ml
10 nm	25	1.06E+15	2.65E+16	3 um	25	3.93E+07	9.82E+08
20 nm	25	1.33E+14	3.32E+15	4.0 um	25	1.66E+07	4.14E+08
30 nm	25	3.93E+13	9.82E+14	5 um	25	8.49E+06	2.12E+08
50 nm	25	8.49E+12	2.12E+14	6.0 um	25	4.91E+06	1.23E+08
70 nm	25	3.09E+12	7.73E+13	7.0 um	25	3.09E+06	7.73E+07
100 nm	25	1.06E+12	2.65E+13	8.0 um	25	2.07E+06	5.18E+07
150 nm	25	3.14E+11	7.86E+12	9.0 um	25	1.46E+06	3.64E+07
200 nm	25	1.33E+11	3.32E+12	10 um	25	1.06E+06	2.65E+07
300 nm	25	3.93E+10	9.82E+11	15 um	25	3.14E+05	7.86E+06
350 nm	25	2.47E+10	6.19E+11	20 um	25	1.33E+05	3.32E+06

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400 nm	25	1.66E+10	4.14E+11	30um	25	3.93E+04	9.82E+05
500 nm	25	8.49E+09	2.12E+11	40 um	25	1.66E+04	4.14E+05
600 nm	25	4.91E+09	1.23E+11	50 um	25	8.49E+03	2.12E+05
700 nm	25	3.09E+09	7.73E+10	60 um	25	4.91E+03	1.23E+05
800 nm	25	2.07E+09	5.18E+10	70 um	25	3.09E+03	7.73E+04
900 nm	25	1.46E+09	3.64E+10	80 um	25	2.07E+03	5.18E+04
1 um	25	1.06E+09	2.65E+10	900 um	25	1.46E+03	3.64E+04
1.5 um	25	3.14E+08	7.86E+09	100 um	25	1.06E+03	2.65E+04
2.0 um	25	1.33E+08	3.32E+09	200 um	25	1.33E+02	3.32E+03

NPS of Silica Particles, 50 mg/ml

Diameter	Concentration	Particles/mg	Particles/ml	Diameter	Concentration	Particles/mg	Particles/ml
10 nm	50	1.06E+15	5.31E+16	3 um	50	3.93E+07	1.96E+09
20 nm	50	1.33E+14	6.63E+15	4.0 um	50	1.66E+07	8.29E+08
30 nm	50	3.93E+13	1.96E+15	5 um	50	8.49E+06	4.24E+08
50 nm	50	8.49E+12	4.24E+14	6.0 um	50	4.91E+06	2.46E+08
70 nm	50	3.09E+12	1.55E+14	7.0 um	50	3.09E+06	1.55E+08
100 nm	50	1.06E+12	5.31E+13	8.0 um	50	2.07E+06	1.04E+08
150 nm	50	3.14E+11	1.57E+13	9.0 um	50	1.46E+06	7.28E+07
200 nm	50	1.33E+11	6.63E+12	10 um	50	1.06E+06	5.31E+07
300 nm	50	3.93E+10	1.96E+12	15 um	50	3.14E+05	1.57E+07
350 nm	50	2.47E+10	1.24E+12	20 um	50	1.33E+05	6.63E+06
400 nm	50	1.66E+10	8.29E+11	30um	50	3.93E+04	1.96E+06
500 nm	50	8.49E+09	4.24E+11	40 um	50	1.66E+04	8.29E+05
600 nm	50	4.91E+09	2.46E+11	50 um	50	8.49E+03	4.24E+05
700 nm	50	3.09E+09	1.55E+11	60 um	50	4.91E+03	2.46E+05
800 nm	50	2.07E+09	1.04E+11	70 um	50	3.09E+03	1.55E+05
900 nm	50	1.46E+09	7.28E+10	80 um	50	2.07E+03	1.04E+05
1 um	50	1.06E+09	5.31E+10	900 um	50	1.46E+03	7.28E+04

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1.5 um	50	3.14E+08	1.57E+10	100 um	50	1.06E+03	5.31E+04
2.0 um	50	1.33E+08	6.63E+09	200 um	50	1.33E+02	6.63E+03

Ordering Information

website: www.abvigen.com

Phone: +1 929-202-3014

Email: info@abvigenus.com

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

info@abvigenus.com

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

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Email:

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