



PRODUCT DATA SHEET

Red Silica Fluorescent Particles-Biotin

Description

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: 10 ml; 20 ml

Surface: Biotin

Shape: Spherical

Density: 2.0 g/ccm

Composition: Red Fluorescent Silica Particles

Polydispersity index:

Excitation: 620 nm

Emission: 680 nm

Buffer: PBS

Form: Suspension

Store: Storage at 2 - 8 °C

Storage

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

Highlights

Monodisperse particles

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 SiO₂ Fluorescent Particles

Diameter	Concentration	Particles/mg	Particles/ml	Diameter	Concentration	Particles/mg	Particles/ml
10 nm	10	9.55E+14	9.55E+15	3 μ m	10	3.54E+07	3.54E+08
20 nm	10	1.19E+14	1.19E+15	4.0 μ m	10	1.49E+07	1.49E+08
30 nm	10	3.54E+13	3.54E+14	5 μ m	10	7.64E+06	7.64E+07
50 nm	10	7.64E+12	7.64E+13	6.0 μ m	10	4.42E+06	4.42E+07
70 nm	10	2.78E+12	2.78E+13	7.0 μ m	10	2.78E+06	2.78E+07
100 nm	10	9.55E+11	9.55E+12	8.0 μ m	10	1.87E+06	1.87E+07
150 nm	10	2.83E+11	2.83E+12	9.0 μ m	10	1.31E+06	1.31E+07
200 nm	10	1.19E+11	1.19E+12	10 μ m	10	9.55E+05	9.55E+06
300 nm	10	3.54E+10	3.54E+11	15 μ m	10	2.83E+05	2.83E+06
350 nm	10	2.23E+10	2.23E+11	20 μ m	10	1.19E+05	1.19E+06
400 nm	10	1.49E+10	1.49E+11	30 μ m	10	3.54E+04	3.54E+05
500 nm	10	7.64E+09	7.64E+10	40 μ m	10	1.49E+04	1.49E+05
600 nm	10	4.42E+09	4.42E+10	50 μ m	10	7.64E+03	7.64E+04
700 nm	10	2.78E+09	2.78E+10	60 μ m	10	4.42E+03	4.42E+04
800 nm	10	1.87E+09	1.87E+10	70 μ m	10	2.78E+03	2.78E+04
900 nm	10	1.31E+09	1.31E+10	80 μ m	10	1.87E+03	1.87E+04
1 μ m	10	9.55E+08	9.55E+09	900 μ m	10	1.31E+03	1.31E+04
1.5 μ m	10	2.83E+08	2.83E+09	100 μ m	10	9.55E+02	9.55E+03
2.0 μ m	10	1.19E+08	1.19E+09	200 μ m	10	1.19E+02	1.19E+03

Ordering Information

website: www.abvigen.com

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Email: info@abvigenus.com