



Red Cross-linked PS Fluorescent Particles-SA PRODUCT DATA SHEET

Red Cross-linked PS Fluorescent Particles-SA

Description

Cross-linked PS Fluorescent Particles are particles with excellent stability and multifunctionality, widely used in biomedical, chemical analysis, and surface coating fields. Cross-linked PS Fluorescent Particles have strong chemical stability, thermal stability, and mechanical strength, and can maintain good functionality in complex experimental environments. Organic fluorescent dyes were added into the monodisperse polystyrene Particles through copolymerization, so that the materials had stable and good fluorescence characteristics. The surface of the material can be further modified to enable it to bind with other biomolecules such as antibodies, DNA, RNA. Widely used in fields such as immune detection, flow cytometry, molecular labeling, and biomolecular analysis. Due to its good dispersion and stability, fluorescent Particles also play an important role in environmental monitoring, sensors and medical diagnosis. Through streptavidin modification, it can specifically bind to proteins and antibodies containing biotin, and can be used for biosensing and drug delivery.

Abvigen Inc can provide high-quality Red Cross-linked PS Fluorescent Particles-SA in various particle sizes. The product has uniform particle size and stable fluorescence performance. It can meet the personalized material needs of various customers for research and development, testing, production, and consumption.

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: Streptavidin

Shape: Spherical

Density: 1.03 g/ccm

Composition: Red Cross-linked PS Fluorescent Particles

Excitation: 620 nm

Emission: 680 nm

Buffer: DI Water

Form: Suspension

Store: Storage at 2 - 8 °C

Storage

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

Note

1-20 um default cross-linking% is 1%, >20 um default cross-linking% is 5%.

If you require any other cross-linking%, please contact us: info@abvigenus.com

For 10 mg/ml of Red Fluorescent Cross-linked Polystyrene Particles-SA

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
0.3 um	10	6.87E+10	6.87E+11	16 um	10	4.53E+05	4.53E+06
0.4 um	10	2.90E+10	2.90E+11	17 um	10	3.77E+05	3.77E+06
0.5 um	10	1.48E+10	1.48E+11	18 um	10	3.18E+05	3.18E+06
0.6 um	10	8.58E+09	8.58E+10	19 um	10	2.70E+05	2.70E+06
0.7 um	10	5.41E+09	5.41E+10	20 um	10	2.32E+05	2.32E+06
0.8 um	10	3.62E+09	3.62E+10	21 um	10	2.00E+05	2.00E+06
0.9 um	10	2.54E+09	2.54E+10	22 um	10	1.74E+05	1.74E+06
1 um	10	1.85E+09	1.85E+10	23 um	10	1.52E+05	1.52E+06
2 um	10	2.32E+08	2.32E+09	24 um	10	1.34E+05	1.34E+06
3 um	10	6.87E+07	6.87E+08	25 um	10	1.19E+05	1.19E+06



4 um	10	2.90E+07	2.90E+08	26 um	10	1.05E+05	1.05E+06
5 um	10	1.48E+07	1.48E+08	27 um	10	9.42E+04	9.42E+05
6 um	10	8.58E+06	8.58E+07	28 um	10	8.45E+04	8.45E+05
7 um	10	5.41E+06	5.41E+07	29 um	10	7.60E+04	7.60E+05
8 um	10	3.62E+06	3.62E+07	30 um	10	6.87E+04	6.87E+05

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 um	3,500 x g	15 min	10 min sonication / vortex
2-4 um	1,600 x g	15 min	vortex
5-8 um	1,200 x g	10 min	vortex
>8 um	25 x g	10 min	vortex

Advantage

Monodisperse particles

High uniformity of particle size

High fluorescence intensity

Good chemical stability

Strong resistance to photobleaching

Specific affinity with biotin



Applications

Flow cytometry

Fluorescence microscope

Devouring research

Cell markers

Ordering Information

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