



Size Standard Polystyrene Particles PRODUCT DATA SHEET

Size Standard Polystyrene Particles

Description

Size standard microspheres are a series of solutions containing polymer microspheres. The calibrated average particle size is traceable to the standard ruler and standard microspheres through the US National Institute of Standards and Technology (NIST). The size standard microspheres are verified by a series of particle size analyzers, including photon correlation spectrometer (PCS), disc centrifugal photometer (DCP), tunable resistance pulse sensing (TRPS), nanoparticle tracking analysis (NTA), or laser diffraction (LD), etc. Monodisperse polystyrene microspheres and nanospheres are often used as particle size standards for calibration of size-measuring instruments. They are potentially useful as the mass standards for particle mass spectrometry as well. The particle size of our standard microspheres ranges from 100 nm to 10 μ m, which can be used to calibrate and monitor the instrument in a wide range.

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

Technical Parameters

Composition: Polystyrene polymer

Particle Size: 100 nm-10 μ m

Density: 1.05 g/cm³

Dispersion Medium: DI water

Particle Refractive Index: 1.59 (589 nm wavelength, 25°C)

Uniformity: CV < 3%

Additive: Trace amount of surfactant

Storage Condition: Store at 2 - 25°C, do not freeze

Quality guarantee period: 12 months

Storage

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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This product should be stored at 2 - 25°C. **DO NOT FREEZE.**

Applications

Particle size analyzer calibration/quality control

Light scattering research

Glial system research

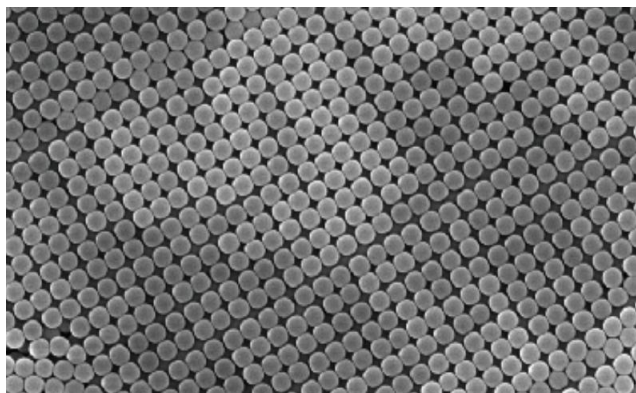
Self-assembled monolayer

Photonic crystal research

For 10 mg/ml of Size Standard Polystyrene Particles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
0.1	10	1.82E+12	1.82E+13	2	10	2.27E+08	2.27E+09
0.2	10	2.27E+11	2.27E+12	3	10	6.74E+07	6.74E+08
0.3	10	6.74E+10	6.74E+11	4	10	2.84E+07	2.84E+08
0.4	10	2.84E+10	2.84E+11	5	10	1.46E+07	1.46E+08
0.5	10	1.46E+10	1.46E+11	6	10	8.42E+06	8.42E+07
0.6	10	8.42E+09	8.42E+10	7	10	5.30E+06	5.30E+07
0.7	10	5.30E+09	5.30E+10	8	10	3.55E+06	3.55E+07
0.8	10	3.55E+09	3.55E+10	9	10	2.50E+06	2.50E+07
0.9	10	2.50E+09	2.50E+10	10	10	1.82E+06	1.82E+07
1	10	1.82E+09	1.82E+10				

Electron microscope image of Size Standard Polystyrene Particles



Ordering Information

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Reserved

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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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