Polystyrene Particles Size Standards
PRODUCT DATA SHEET

Polystyrene Particle

Description

Polystyrene particles size standards are a series of aqueous solutions containing polymer microspheres. The calibrated average particle size is traceable to the scale and standard microspheres through the National Institute of Standards and Technology (NIST). polystyrene particles size standards are verified by a series of particle size analyzers, including photon correlation spectrometer (PCS), centrifugal disc photometer (PCP), tunable resistive pulse sensing (TRPS), and nanoparticle tracking analysis (NTA).) or laser diffraction (LD), etc. Our scale standard microspheres have a particle size range from 50 nm to 10 um, which enables instrument calibration and monitoring in a wide range. Abvigen provides a range of polystyrene particles size standards in a variety of surface materials for research and commercial applications, including drug delivery, calibration and validation of particle size measuring instruments, diagnostics, immunoassays and flow cytometry.

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 -10 um

Size: 15 ml

Concentration: 10 mg/ml

Shape: Spherical

Density: 1.03 g/ccm

Refractive Index: 1.59（589 nm, 25℃）

CV: <3%

Composition: Polystyrene Particles

Buffer: DI Water

Form: Suspension

Colour: White

1378 US-206 Ste 6-126, Skillman, NJ USA Email: info@abvigenus.com
Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Store: Storage at 2 - 25 °C. **DO NOT FREEZE**.

Storage

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

Highlights

Highly monodisperse

Reproducibility

Stable and resistant to aggregation

Versatility

Highly uniform in size and shape

Easy visualization

Low toxicity with good biocompatibility

For 10 mg/ml of Polystyrene Particles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
25 nm	10	1.19E+14	1.19E+15	10 um	10	1.85E+06	1.85E+07
50 nm	10	1.48E+13	1.48E+14	20 um	10	2.32E+05	2.32E+06
80 nm	10	3.62E+12	3.62E+13	30 um		6.87E+04	6.87E+05
100 nm	10	1.85E+12	1.85E+13	40 um	10	2.90E+04	2.90E+05
200 nm	10	2.32E+11	2.32E+12	50 um	10	1.48E+04	1.48E+05
300 nm	10	6.87E+10	6.87E+11	60 um	10	8.58E+03	8.58E+04
400 nm	10	2.90E+10	2.90E+11	70 um	10	5.41E+03	5.41E+04
500 nm	10	1.48E+10	1.48E+11	80 um	10	3.62E+03	3.62E+04
600 nm	10	8.58E+09	8.58E+10	90 um	10	2.54E+03	2.54E+04
700 nm	10	5.41E+09	5.41E+10	100 um	10	1.85E+03	1.85E+04
800 nm	10	3.62E+09	3.62E+10	200 um	10	2.32E+02	2.32E+03
900 nm	10	2.54E+09	2.54E+10	300 um	10	6.87E+01	6.87E+02
1 um	10	1.85E+09	1.85E+10	400 um	10	2.90E+01	2.90E+02
2 um	10	2.32E+08	2.32E+09	500 um	10	1.48E+01	1.48E+02

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3 um	10	6.87E+07	6.87E+08	600 um	10	8.58E+00	8.58E+01
4 um	10	2.90E+07	2.90E+08	700 um	10	5.41E+00	5.41E+01
5 um	10	1.48E+07	1.48E+08	800 um	10	3.62E+00	3.62E+01
6 um	10	8.58E+06	8.58E+07	900 um	10	2.54E+00	2.54E+01
7 um	10	5.41E+06	5.41E+07	1 mm	10	1.85E+00	1.85E+01
8 um	10	3.62E+06	3.62E+07	3 mm	10	6.87E-02	6.87E-01
9 um	10	2.54E+06	2.54E+07				

Ordering Information

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