



## Polystyrene Particles-CY5.5

### PRODUCT DATA SHEET

## Polystyrene Particles-CY5.5

### Description

Abvigen has developed a large selection of polystyrene micro- and nanoparticles. Polystyrene particles and Microparticles are highly spherical plastic particles in sizes between 50 nm to 100 um. The polystyrene particles are prepared by using emulsion polymerization process. Coated or conjugated particles are prepared either by passive adsorption or covalent coupling.

For custom sizes, formulations or bulk quantities please contact our customer service department.

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### Characteristics

Core diameter: 50 nm -100 um

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

Concentration: 10 mg/ml

Shape: Spherical

Density: 1.03 g/ccm

Composition: Polystyrene Particles

Fluorescence: CY5.5

Buffer: DI Water

Form: Suspension

Store: Storage at 2 - 8 °C. **DO NOT FREEZE.**

### Storage

This product should be stored at 2-8°C. **DO NOT FREEZE.**

### Highlights

Highly monodisperse

Reproducibility

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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.<br>mg/ml | Particles/mg | Particles/ml | Diameter | Conc.<br>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     |
| 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     |          |                |              |              |

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## Ordering Information

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