



## Mesoporous Silica Particles PRODUCT DATA SHEET

### Mesoporous Silica Particles

#### Description

Mesoporous Silica Particles are nanomaterials with unique structures and properties, characterized by highly ordered pore structures and large specific surface areas. This ordered pore structure gives them high catalytic activity and excellent adsorption performance. In addition, Mesoporous Silica Particles also have other unique advantages, including adjustable pore size, regular pore channels and morphology, easy surface modification, good biocompatibility, and are widely used in adsorption, catalysis, drug carriers, microreactors and other fields.

Abigen can provide high-quality Mesoporous Silica Particles of various particle sizes. This material can be used as a targeted drug carrier for drug delivery, as a loaded fluorescent dye for biological imaging and tracking, and as an adsorbent and catalyst for adsorbing and degrading organic pollutants. We are able to meet the individual material needs of our customers for research and development, testing and production consumption.

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

**Website:** [www.abvigen.com](http://www.abvigen.com) **Phone:** +1 929-202-3014 **Email:** [info@abvigenus.com](mailto:info@abvigenus.com)



### Characteristics

Diameter: 50 nm -100 um

Size: 10 ml or others

Concentration: 10 mg/ml

Composition: Mesoporous Silica Particles

Density: 1.8 g/ccm

Shape: Spherical

Functional Group: Plain

Buffer: DI Water

Form: Suspension

Colour: White

### For 10 mg/ml of Mesoporous Silica Particles

Diameter	Conc. mg/ml	Particles/m g	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
0.05 um	10	8.49E+12	8.49E+13	10 um	10	1.06E+06	1.06E+07
0.1 um	10	1.06E+12	1.06E+13	20 um	10	1.33E+05	1.33E+06
0.15 um	10	3.14E+11	3.14E+12	30 um	10	3.93E+04	3.93E+05
0.2 um	10	1.33E+11	1.33E+12	40 um	10	1.66E+04	1.66E+05
0.3 um	10	3.93E+10	3.93E+11	50 um	10	8.49E+03	8.49E+04
0.5 um	10	8.49E+09	8.49E+10	60 um	10	4.91E+03	4.91E+04
1 um	10	1.06E+09	1.06E+10	70 um	10	3.09E+03	3.09E+04
3 um	10	3.93E+07	3.93E+08	80 um	10	2.07E+03	2.07E+04
5 um	10	8.49E+06	8.49E+07	90 um	10	1.46E+03	1.46E+04
8 um	10	2.07E+06	2.07E+07	100 um	10	1.06E+03	1.06E+04



### **Highlights**

Good adsorption performance

High specific surface area

Good biocompatibility

Uniform particle size

Strong chemical stability

Good dispersibility

Surface modifiable

### **Applications**

Protein adsorption and separation

Nucleic acid detection and purification

Drug and gene delivery

Imaging contrast agents construction

Biodiagnostic and nanomedicine applications

### **Ordering Information**

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