



## PRODUCT DATA SHEET

### Polystyrene Particles-Protein L

#### Description

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

Core diameter: 50 nm - 100 um

Size: 2 ml;5 ml

Concentration: 50 mg/ml

Shape: Spherical

Composition: Polystyrene Particles

Functional Group: Protein L

Buffer: PBS

Form: Suspension

Colour: White

Store: Storage at 2 - 8 °C

#### Storage

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

#### Highlights

Superior size distribution compared to the leading competitor; available from 20 nm to 3 mm

Size Standards

Exceptional protein binding characteristics

Available with multiple surface functionalities to suit all  
your needs

#### For 5 mg/ml of Polystyrene Particles

| Diameter/<br>nm | Concentrati<br>on | Particles/<br>mg | Particles/<br>ml | Diameter/<br>nm | Concentrati<br>on | Particles/<br>mg | Particles/<br>ml |
|-----------------|-------------------|------------------|------------------|-----------------|-------------------|------------------|------------------|
|-----------------|-------------------|------------------|------------------|-----------------|-------------------|------------------|------------------|

|      |   |          |          |        |   |          |          |
|------|---|----------|----------|--------|---|----------|----------|
| 10   | 5 | 1.85E+15 | 9.27E+15 | 3000   | 5 | 6.87E+07 | 3.43E+08 |
| 20   | 5 | 2.32E+14 | 1.16E+15 | 4000   | 5 | 2.90E+07 | 1.45E+08 |
| 30   | 5 | 6.87E+13 | 3.43E+14 | 5000   | 5 | 1.48E+07 | 7.42E+07 |
| 50   | 5 | 1.48E+13 | 7.42E+13 | 6000   | 5 | 8.58E+06 | 4.29E+07 |
| 70   | 5 | 5.41E+12 | 2.70E+13 | 7000   | 5 | 5.41E+06 | 2.70E+07 |
| 100  | 5 | 1.85E+12 | 9.27E+12 | 8000   | 5 | 3.62E+06 | 1.81E+07 |
| 150  | 5 | 5.49E+11 | 2.75E+12 | 9000   | 5 | 2.54E+06 | 1.27E+07 |
| 200  | 5 | 2.32E+11 | 1.16E+12 | 10000  | 5 | 1.85E+06 | 9.27E+06 |
| 300  | 5 | 6.87E+10 | 3.43E+11 | 15000  | 5 | 5.49E+05 | 2.75E+06 |
| 350  | 5 | 4.32E+10 | 2.16E+11 | 20000  | 5 | 2.32E+05 | 1.16E+06 |
| 400  | 5 | 2.90E+10 | 1.45E+11 | 30000  | 5 | 6.87E+04 | 3.43E+05 |
| 500  | 5 | 1.48E+10 | 7.42E+10 | 40000  | 5 | 2.90E+04 | 1.45E+05 |
| 600  | 5 | 8.58E+09 | 4.29E+10 | 50000  | 5 | 1.48E+04 | 7.42E+04 |
| 700  | 5 | 5.41E+09 | 2.70E+10 | 60000  | 5 | 8.58E+03 | 4.29E+04 |
| 800  | 5 | 3.62E+09 | 1.81E+10 | 70000  | 5 | 5.41E+03 | 2.70E+04 |
| 900  | 5 | 2.54E+09 | 1.27E+10 | 80000  | 5 | 3.62E+03 | 1.81E+04 |
| 1000 | 5 | 1.85E+09 | 9.27E+09 | 90000  | 5 | 2.54E+03 | 1.27E+04 |
| 1500 | 5 | 5.49E+08 | 2.75E+09 | 100000 | 5 | 1.85E+03 | 9.27E+03 |
| 2000 | 5 | 2.32E+08 | 1.16E+09 | 200000 | 5 | 2.32E+02 | 1.16E+03 |

#### 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 $\mu$ m     | 3,500 x g                | 15 min | 10 min sonication / vortex |
| 2 – 4 $\mu$ m | 1,600 x g                | 15 min | vortex                     |
| 5 - 8 $\mu$ m | 1,200 x g                | 10 min | vortex                     |



|             |        |        |        |
|-------------|--------|--------|--------|
| > 8 $\mu$ m | 25 x g | 10 min | vortex |
|-------------|--------|--------|--------|

#### Ordering Information

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