

## Protein G PE Particles

### Description

聚乙烯（Polyethylene，简称 PE）是乙烯单体经聚合反应制得的一种热塑性树脂。聚乙烯无臭，无毒，具有优良的耐低温性能，化学稳定性好，能耐大多数酸碱的侵蚀，常温下不溶于一般溶剂，疏水性强，电绝缘性优良。聚乙烯微球是由聚乙烯制成的微小球体，粒径大小通常在微米级别，具有良好的化学稳定性、高吸附性和高反应性等。

百欧泰生物可以提供不同粒径大小的高质量 PE 微球（0.05  $\mu\text{m}$  – 100  $\mu\text{m}$ ），还可提供不同表面修饰的 PE 微球，如羧基 PE 微球和氨基 PE 微球等。微球产品粒径均一，化学稳定性好，吸附性好，制作工艺成熟，产品各批次间重复性高，易于表面改性和修饰，可以满足各类客户研发，试验及生产等不同个性化需求。

## Product Information

|      |                                                        |
|------|--------------------------------------------------------|
| 类型   | PE Particles                                           |
| 直径   | 0.05 um - 100 um                                       |
| 表面修饰 | Protein G                                              |
| 浓度   | 10 mg/ml                                               |
| 缓冲溶液 | Supplied in DI Water.                                  |
| 规格   | 10 ml                                                  |
| 保存温度 | Stored at 2 - 8° C. Do not freeze. Protect from light. |
| 保质期  | 12 months                                              |

| Diameter<br>(um) | Particle<br>Volume<br>(nm3) | Volume<br>(ml) | Wt.<br>Conc.(mg/ml) | Particle<br>Mass (g) | NPS/mg   | NPS//ml  | Conc.<br>(nmol/ml) |
|------------------|-----------------------------|----------------|---------------------|----------------------|----------|----------|--------------------|
| 0.05             | 6.54E+04                    | 10             | 10                  | 7.20E-17             | 1.39E+13 | 1.39E+14 | 2.31E-01           |
| 0.1              | 5.24E+05                    | 10             | 10                  | 5.76E-16             | 1.74E+12 | 1.74E+13 | 2.88E-02           |
| 0.2              | 4.19E+06                    | 10             | 10                  | 4.61E-15             | 2.17E+11 | 2.17E+12 | 3.60E-03           |
| 0.3              | 1.41E+07                    | 10             | 10                  | 1.56E-14             | 6.43E+10 | 6.43E+11 | 1.07E-03           |
| 0.4              | 3.35E+07                    | 10             | 10                  | 3.69E-14             | 2.71E+10 | 2.71E+11 | 4.50E-04           |
| 0.5              | 6.54E+07                    | 10             | 10                  | 7.20E-14             | 1.39E+10 | 1.39E+11 | 2.31E-04           |
| 0.6              | 1.13E+08                    | 10             | 10                  | 1.24E-13             | 8.04E+09 | 8.04E+10 | 1.33E-04           |
| 0.7              | 1.80E+08                    | 10             | 10                  | 1.98E-13             | 5.06E+09 | 5.06E+10 | 8.41E-05           |
| 0.8              | 2.68E+08                    | 10             | 10                  | 2.95E-13             | 3.39E+09 | 3.39E+10 | 5.63E-05           |
| 0.9              | 3.82E+08                    | 10             | 10                  | 4.20E-13             | 2.38E+09 | 2.38E+10 | 3.95E-05           |
| 1                | 5.24E+08                    | 10             | 10                  | 5.76E-13             | 1.74E+09 | 1.74E+10 | 2.88E-05           |
| 2                | 4.19E+09                    | 10             | 10                  | 4.61E-12             | 2.17E+08 | 2.17E+09 | 3.60E-06           |
| 3                | 1.41E+10                    | 10             | 10                  | 1.56E-11             | 6.43E+07 | 6.43E+08 | 1.07E-06           |
| 4                | 3.35E+10                    | 10             | 10                  | 3.69E-11             | 2.71E+07 | 2.71E+08 | 4.50E-07           |
| 5                | 6.54E+10                    | 10             | 10                  | 7.20E-11             | 1.39E+07 | 1.39E+08 | 2.31E-07           |
| 6                | 1.13E+11                    | 10             | 10                  | 1.24E-10             | 8.04E+06 | 8.04E+07 | 1.33E-07           |
| 7                | 1.80E+11                    | 10             | 10                  | 1.98E-10             | 5.06E+06 | 5.06E+07 | 8.41E-08           |
| 8                | 2.68E+11                    | 10             | 10                  | 2.95E-10             | 3.39E+06 | 3.39E+07 | 5.63E-08           |
| 9                | 3.82E+11                    | 10             | 10                  | 4.20E-10             | 2.38E+06 | 2.38E+07 | 3.95E-08           |
| 10               | 5.24E+11                    | 10             | 10                  | 5.76E-10             | 1.74E+06 | 1.74E+07 | 2.88E-08           |
| 11               | 6.97E+11                    | 10             | 10                  | 7.67E-10             | 1.30E+06 | 1.30E+07 | 2.17E-08           |

|     |          |    |    |          |          |          |          |
|-----|----------|----|----|----------|----------|----------|----------|
| 12  | 9.05E+11 | 10 | 10 | 9.95E-10 | 1.00E+06 | 1.00E+07 | 1.67E-08 |
| 13  | 1.15E+12 | 10 | 10 | 1.27E-09 | 7.90E+05 | 7.90E+06 | 1.31E-08 |
| 14  | 1.44E+12 | 10 | 10 | 1.58E-09 | 6.33E+05 | 6.33E+06 | 1.05E-08 |
| 15  | 1.77E+12 | 10 | 10 | 1.94E-09 | 5.14E+05 | 5.14E+06 | 8.54E-08 |
| 17  | 2.57E+12 | 10 | 10 | 2.83E-09 | 3.53E+05 | 3.53E+06 | 5.87E-09 |
| 18  | 3.05E+12 | 10 | 10 | 3.36E-09 | 2.98E+05 | 2.98E+06 | 4.94E-09 |
| 20  | 4.19E+12 | 10 | 10 | 4.61E-09 | 2.17E+05 | 2.17E+06 | 3.60E-09 |
| 22  | 5.58E+12 | 10 | 10 | 6.13E-09 | 1.63E+05 | 1.63E+06 | 2.71E-09 |
| 23  | 6.37E+12 | 10 | 10 | 7.01E-09 | 1.43E+05 | 1.43E+06 | 2.37E-09 |
| 24  | 7.24E+12 | 10 | 10 | 7.96E-09 | 1.26E+05 | 1.26E+06 | 2.09E-09 |
| 25  | 8.18E+12 | 10 | 10 | 9.00E-09 | 1.11E+05 | 1.11E+06 | 1.85E-09 |
| 30  | 1.41E+13 | 10 | 10 | 1.56E-08 | 6.43E+04 | 6.43E+05 | 1.07E-09 |
| 40  | 3.35E+13 | 10 | 10 | 3.69E-08 | 2.71E+04 | 2.71E+05 | 4.50E-10 |
| 50  | 6.54E+13 | 10 | 10 | 7.20E-08 | 1.39E+04 | 1.39E+05 | 2.31E-10 |
| 60  | 1.13E+14 | 10 | 10 | 1.24E-07 | 8.04E+03 | 8.04E+04 | 1.33E-10 |
| 70  | 1.80E+14 | 10 | 10 | 1.98E-07 | 5.06E+03 | 5.06E+04 | 8.41E-11 |
| 80  | 2.68E+14 | 10 | 10 | 2.95E-07 | 3.39E+03 | 3.39E+04 | 5.63E-11 |
| 90  | 3.82E+14 | 10 | 10 | 4.20E-07 | 2.38E+03 | 2.38E+04 | 3.95E-11 |
| 100 | 5.24E+14 | 10 | 10 | 5.76E-07 | 1.74E+03 | 1.74E+04 | 2.88E-11 |

## Applications

填充材料

增强剂

化妆品

洗护用品

药物载体

造影剂

## Storage

Store product away from direct sunlight at 2-8° C.

Do NOT freeze.

When stored as specified the product is stable for at least twelve months.

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