

## Polystyrene Particles-Alkyl

### DESCRIPTION

烷基修饰聚苯乙烯微球（Polystyrene Particles-Alkyl）是一种高性能功能化纳米材料，以单分散聚苯乙烯微球为基体，通过化学修饰在表面引入烷基官能团，赋予材料疏水性和界面相容性。该产品具有粒径均一可控、表面化学稳定性高、分散性优异等特点，可应用于生物医学检测（如免疫层析标记）、色谱分离填料、药物载体构建、微反应器模板及纳米复合材料制备等领域。

百欧泰生物可以提供多种粒径大小的高质量烷基修饰聚苯乙烯微球，该产品粒径均一、分散性良好，可以满足各类客户研发，试验及生产消费等不同个性化材料需求。

### Product Information

|      |                                  |
|------|----------------------------------|
| 类型   | Polystyrene Particles            |
| 直径   | 50 nm - 100 um                   |
| 规格   | 10 ml                            |
| 表面修饰 | Alkyl                            |
| 浓度   | 25 mg/ml                         |
| 缓冲溶液 | DI water, 20 ppm SDS or Ethanol  |
| 保存温度 | Stored at 2 - 8°C. Do not freeze |

## NPS of Polystyrene Particles-Alkyl, 25 mg/ml

| Diameter (um) | Particle Volume (nm <sup>3</sup> ) | Volume (ml) | Wt. Conc.(mg/ml) | Particle Mass (g) | NPS/mg   | NPS/ml   | Conc. (nmol/ml) |
|---------------|------------------------------------|-------------|------------------|-------------------|----------|----------|-----------------|
| 0.05          | 6.54E+04                           | 10          | 25               | 6.74E-16          | 1.48E+12 | 3.71E+13 | 6.16E-02        |
| 0.1           | 5.24E+05                           | 10          | 25               | 5.39E-15          | 1.85E+11 | 4.64E+12 | 7.70E-03        |
| 0.2           | 4.19E+06                           | 10          | 25               | 4.31E-14          | 2.32E+10 | 5.79E+11 | 9.62E-04        |
| 0.3           | 1.41E+07                           | 10          | 25               | 1.46E-13          | 6.87E+09 | 1.72E+11 | 2.85E-04        |
| 0.4           | 3.35E+07                           | 10          | 25               | 3.45E-13          | 2.90E+09 | 7.24E+10 | 1.20E-04        |
| 0.5           | 6.54E+07                           | 10          | 25               | 6.74E-13          | 1.48E+09 | 3.71E+10 | 6.16E-05        |
| 0.6           | 1.13E+08                           | 10          | 25               | 1.16E-12          | 8.58E+08 | 2.15E+10 | 3.56E-05        |
| 0.7           | 1.80E+08                           | 10          | 25               | 1.85E-12          | 5.41E+08 | 1.35E+10 | 2.24E-05        |
| 0.8           | 2.68E+08                           | 10          | 25               | 2.76E-12          | 3.62E+08 | 9.05E+09 | 1.50E-05        |
| 0.9           | 3.82E+08                           | 10          | 25               | 3.93E-12          | 2.54E+08 | 6.36E+09 | 1.06E-05        |
| 1             | 5.24E+08                           | 10          | 25               | 5.39E-12          | 1.85E+08 | 4.64E+09 | 7.70E-06        |
| 2             | 4.19E+09                           | 10          | 25               | 4.31E-11          | 2.32E+07 | 5.79E+08 | 9.62E-07        |
| 3             | 1.41E+10                           | 10          | 25               | 1.46E-10          | 6.87E+06 | 1.72E+08 | 2.85E-07        |
| 4             | 3.35E+10                           | 10          | 25               | 3.45E-10          | 2.90E+06 | 7.24E+07 | 1.20E-07        |
| 5             | 6.54E+10                           | 10          | 25               | 6.74E-10          | 1.48E+06 | 3.71E+07 | 6.16E-08        |
| 6             | 1.13E+11                           | 10          | 25               | 1.16E-09          | 8.58E+05 | 2.15E+07 | 3.56E-08        |
| 7             | 1.80E+11                           | 10          | 25               | 1.85E-09          | 5.41E+05 | 1.35E+07 | 2.24E-08        |
| 8             | 2.68E+11                           | 10          | 25               | 2.76E-09          | 3.62E+05 | 9.05E+06 | 1.50E-08        |
| 9             | 3.82E+11                           | 10          | 25               | 3.93E-09          | 2.54E+05 | 6.36E+06 | 1.06E-08        |
| 10            | 5.24E+11                           | 10          | 25               | 5.39E-09          | 1.85E+05 | 4.64E+06 | 7.70E-09        |
| 15            | 1.77E+12                           | 10          | 25               | 1.82E-08          | 5.49E+04 | 1.37E+06 | 2.28E-09        |
| 20            | 4.19E+12                           | 10          | 25               | 4.31E-08          | 2.32E+04 | 5.79E+05 | 9.62E-10        |
| 30            | 1.41E+13                           | 10          | 25               | 1.46E-07          | 6.87E+03 | 1.72E+05 | 2.85E-10        |
| 40            | 3.35E+13                           | 10          | 25               | 3.45E-07          | 2.90E+03 | 7.24E+04 | 1.20E-10        |
| 50            | 6.54E+13                           | 10          | 25               | 6.74E-07          | 1.48E+03 | 3.71E+04 | 6.16E-11        |
| 60            | 1.13E+14                           | 10          | 25               | 1.16E-06          | 8.58E+02 | 2.15E+04 | 3.56E-11        |
| 70            | 1.80E+14                           | 10          | 25               | 1.85E-06          | 5.41E+02 | 1.35E+04 | 2.24E-11        |
| 80            | 2.68E+14                           | 10          | 25               | 2.76E-06          | 3.62E+02 | 9.05E+03 | 1.50E-11        |
| 90            | 3.82E+14                           | 10          | 25               | 3.93E-06          | 2.54E+02 | 6.36E+03 | 1.06E-11        |
| 100           | 5.24E+14                           | 10          | 25               | 5.39E-06          | 1.85E+02 | 4.64E+03 | 7.70E-12        |

## Advantage

粒径大小均一  
良好疏水性  
良好化学稳定性

## Applications

免疫层析标记  
色谱填料  
药物载体  
微反应器模板  
纳米复合材料制备

## Storage

Store product away from direct sunlight at 2-8° C.  
Do NOT freeze.

## Contact Us

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