

Catalog Number C37278
Product Name Carboxyl latex, 4% w/v 2 µm
Appearance white suspension
Medium deionized water
Lot Number 2465791

Negatively charged polystyrene microspheres with carboxyl functional groups on the surface.
 Surface charge is pH dependent. Stable at neutral to high pH. Surface is hydrophobic in nature.
 STORE AT 2 - 8°C, DO NOT FREEZE

| | LOT DATA | SPECIFICATION |
|--|--|---------------|
| PHYSICAL PROPERTIES OF PS¹ | | |
| Density at 20°C | 1.055 g / cm ³ | n.a. |
| Refractive Index at 590 nm, 20°C | 1.591 | n.a. |
| TECHNICAL DATA | | |
| Material Lot Number | 2538505 | n.a. |
| Mean Diameter (TEM) ² | 2.1 µm | 2.0 ± 0.3 µm |
| Standard Deviation of Diameter | 0.12 µm | n.a. |
| Coefficient of Variation of Diameter | 5.8 % | ≤ 15 % |
| Percent Solids w/v | 4.0 % | 4.0 ± 0.5 % |
| Carboxyl Charge Titration Data | 5.5 µEq / g | n.a. |
| Bioburden Test | meets specification | 0 CFU / mL |
| THE CALCULATED DATA | | |
| Particle Number per Milliliter of Latex | 7.8 x 10 ⁹ | n.a. |
| Specific Surface Area | 2.7 x 10 ⁴ cm ² /g | n.a. |
| Surface Charge Density | 19.6 µC/cm ² | n.a. |
| Parking Area per Carboxyl Group | 82 Å ² / COOH | n.a. |
| Carboxyl Groups per Particles | 1.7 x 10 ⁷ | n.a. |

1. of polystyrene



Aaron Rider, Quality Control Supervisor
1-Sep-2022

Life Technologies Corporation certifies on the date above that this is an accurate record of the analysis of the subject lot, and that the data conform to the specifications in effect for this product at the time of analysis.