

Catalog Number C37278
Product Name Carboxyl latex, 4% w/v 2 µm
Appearance white suspension
Medium deionized water
Lot Number 3035173

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



Zach Luedtke, Quality Assurance Manager
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.

Products are under warranty for one year from the date of shipment unless otherwise stated on this document or the product literature.