

Catalog Number C37232
Product Name CML latex, 4% w/v 0.04 µm
Appearance white suspension
Medium deionized water
Lot Number 2841616

Negatively charged polystyrene microspheres with sulfate and high density of carboxyl functional groups on the surface.
 Surface charge is pH dependent. Stable at wide range of pH. Surface is hydrophobic at low pH and somewhat hydrophilic at high pH.
 STORE AT 2 - 8°C, DO NOT FREEZE

	LOT DATA	SPECIFICATION
PHYSICAL PROPERTIES OF PS¹ Density at 20°C Refractive Index at 590 nm, 20°C	1.055 g / cm ³ 1.591	n.a. n.a.
TECHNICAL DATA Material Lot Number Mean Diameter (TEM) ² Standard Deviation of Diameter Coefficient of Variation of Diameter Percent Solids w/v Carboxyl Charge Titration Data Bioburden Test	2483604 0.037 µm 0.005 µm 12.2 % 4.0 % 1013.0 µEq / g meets specification	n.a. 0.04 ± 0.01 µm n.a. ≤ 20 % 3.5 - 4.5 % n.a. 0 CFU / mL
THE CALCULATED DATA Particle Number per Milliliter of Latex Specific Surface Area Parking Area per Carboxyl Group ³ Carboxyl Groups per Particles	1.4 x 10 ¹⁵ 1.5 x 10 ⁶ cm ² /g 25 Å ² / COOH 1.7 x 10 ⁴	n.a. n.a. n.a. n.a.

1. of polystyrene

2. *by Transmission Electron Microscopy*
3. *assuming monolayer*



Zach Luedtke, Quality Assurance Manager
17-Mar-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.