

Catalog Number S37491
Product Name Sulfate latex, 8% w/v 0.2 µm
Appearance white suspension
Medium deionized water
Lot Number 2260946

Negatively charged polystyrene microspheres with sulfate functional groups on the surface.

Surface charge is pH independent. Stable at wide range 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	1920516	n.a.
Mean Diameter (TEM) ²	0.21 µm	0.15 - 0.25 µm
Standard Deviation of Diameter	0.010 µm	n.a.
Coefficient of Variation of Diameter	4.9 %	≤12 %
Percent Solids w/v	8.0 %	7.5 - 8.5 %
Sulfate Charge Titration Data	1.3 µEq / g	n.a.
Bioburden Test	meets specification	0 CFU / mL
THE CALCULATED DATA		
Particle Number per Milliliter of Latex	1.6×10^{13}	n.a.
Specific Surface Area	$2.7 \times 10^5 \text{ cm}^2/\text{g}$	n.a.
Surface Charge Density	0.5 µC/cm^2	n.a.
Parking Area per Sulfate Group	$3541 \text{ Å}^2 / \text{SO}_4$	n.a.
Charge Groups per Particle	3.9×10^3	n.a.

1. of polystyrene



Rachel Smith, Quality Assurance Manager
8-Nov-2017

Life Technologies Corporation, on behalf of its Invitrogen business, Molecular Probes® labeling and detection technologies, 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.
