Life Technologies

CERTIFICATE OF ANALYSIS

Catalog Number S37491

Product Name Sulfate latex, 8% w/v 0.2 μm

Appearance white suspension

Medium deionized water

Lot Number 3035176

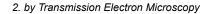
Negatively charged polystyrene microspheres with sulfate functional groups on the surface.

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 PS ¹ 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	2513654	n.a.
Mean Diameter (TEM) ²	0.22 μm	0.15 - 0.25 μm
Standard Deviation of Diameter	0.007 μm	n.a.
Coefficient of Variation of Diameter	3.1 %	≤12 %
Percent Solids w/v	8.0 %	7.5 - 8.5 %
Sulfate Charge Titration Data	6.1 μEq / g	n.a.
Bioburden Test	meets specification	0 CFU / mL
THE CALCULATED DATA Particle Number per Milliliter of Latex	1.4 x 10 ¹³	n.a.
Specific Surface Area	2.6 x 10 ⁵ cm ² /g	n.a.
Surface Charge Density	2.3 μC/cm ²	n.a.
Parking Area per Sulfate Group	699 A ² / SO ₄	n.a.
Charge Groups per Particle	2.2 x 10 ⁴	n.a.

1. of polystyrene



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Zach Luedtke, Quality Assurance Manager

15-Jul-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.