MOLECULAR PROBES®

Catalog Number	A37283	
Product Name	Aldehyde/Sulfate latex, 4% w/v 0.02 µm	
Appearance	white suspension	
Medium	de-ionized water	
Lot Number	1571807	

Negatively charged polystyrene microspheres with sulfate and aldehyde 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	1242670	n.a.
Mean Diameter (TEM) ²	0.028 μm	0.01 - 0.03 μm
Standard Deviation of Diameter	0.004 μm	n.a.
Coefficient of Variation of Diameter	15.3 %	≤25 %
Percent Solids w/v	4.0 %	3.5 - 4.5 %
Sulfate Charge Titration Data	73.3 µEq / g	n.a.
Aldehyde Titration Data	74.0 μEq / g	n.a.
Bioburden Test	meets specification	0 CFU / mL
THE CALCULATED DATA		
Particle Number per Milliliter of Latex	3.3 x 10 ¹⁵	n.a.
Specific Surface Area	2.0 x 10 ⁶ cm ² /g	n.a.
Parking Area per Sulfate Group	460 A ² / SO ₄	n.a.
Parking Area per Aldehyde Group	456 A ² / CHO	n.a.

1. of polystyrene

2. by Transmission Electron Microscopy.

Betty Wood

Betty Wood, Quality Assurance Manager 06-Nov-2012

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.