Catalog Number

C37480

Product Name

CML latex, 4% w/v 0.2 µm

Appearance

white suspension

Medium

de-ionized water

Lot Number

1845148

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	1.055 g / cm ³	n.a.
Refractive Index at 590 nm, 20°C	1.591	n.a.
TECHNICAL DATA		
Material Lot Number	1187090	n.a.
Mean Diameter (TEM) ²	0.19 µm	0.15 - 0.25 μm
Standard Deviation of Diameter	0.008 µm	n.a.
Coefficient of Variation of Diameter	4.5 %	≤12 %
Percent Solids w/v	4.1 %	3.5 - 4.5 %
Carboxyl Charge Titration Data	41.5 µEq / g	n.a.
Bioburden Test	meets specification	0 CFU / mL
THE CALCULATED DATA		
Particle Number per Milliliter of Latex	1.1 x 10 ¹³	n.a.
Specific Surface Area	$3.0 \times 10^5 \text{ cm}^2/\text{g}$	n.a.
Parking Area per Carboxyl Group ³	120 A ² / COOH	n.a.
Carboxyl Groups per Particles	9.5 x 10 ⁴	n.a.

- 1. of polystyrene
- 2. by Transmission Electron Microscopy.
- 3. assuming monolayer.

Rachel Smith, Ph.D., Quality Assurance

22-Aug-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.