**Catalog Number** 

C37232

**Product Name** 

CML latex, 4% w/v 0.04 µm

Appearance Medium white suspension de-ionized water

Lot Number

1872872

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

County participation in the contract	LOT DATA	SPECIFICATION
PHYSICAL PROPERTIES OF PS1		
Density at 20°C	1.055 g / cm <sup>3</sup>	n.a.
Refractive Index at 590 nm, 20°C	1.591	n.a.
TECHNICAL DATA		
Material Lot Number	1678196	n.a.
Mean Diameter (TEM) <sup>2</sup>	0.045 μm	0.04 ± 0.01 µm
Standard Deviation of Diameter	0.008 µm	n.a.
Coefficient of Variation of Diameter	16.6 %	≤20 %
Percent Solids w/v	4.0 %	3.5 - 4.5 %
Carboxyl Charge Titration Data	650.1 µEq / g	n.a.
Bioburden Test	meets specification	0 CFU / mL
THE CALCULATED DATA	,	
Particle Number per Milliliter of Latex	7.8 x 10 <sup>14</sup>	n.a.
Specific Surface Area	1.3 x 10 <sup>6</sup> cm <sup>2</sup> /g	n.a.
Parking Area per Carboxyl Group <sup>3</sup>	32 A <sup>2</sup> / COOH	n.a.
Carboxyl Groups per Particles	2.0 x 10 <sup>4</sup>	n.a.

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

Rachel Smith, Ph.D., Quality Assurance

06-Mar-2015

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.