

**Catalog Number** F8859  
**Product Name** FluoSpheres® sulfate microspheres, 4.0 µm, yellow-green fluorescent (505/515) \*2% solids\*  
**Appearance** yellow suspension  
**Medium** distilled water, 0.02% Tween® 20, 2 mM azide  
**Concentration**  $5.7 \times 10^8$  particles/mL  
**Lot Number** 1988074A

SONICATE WELL BEFORE USE. STORE AT 2° - 8° C, DO NOT FREEZE

	LOT DATA	SPECIFICATION
<b>FLOW CYTOMETRY</b>		
Percent Singlets	89%	≥ 85%
CV of Forward Scattering	3%	≤ 8%
<b>FLUORESCENCE</b>		
Emission Maximum	516 nm	520 ± 5 nm
Relative Quantum Yield <sup>1</sup>	0.27	≥ 0.25
<b>MICROSCOPY</b>		
Inspection	meets specification	few or no aggregates detectable after sonication
<b>TECHNICAL DATA<sup>2</sup></b>		
Actual Particle Size	4.0 ± 0.184 µm	n.a.
Charge	0.0009 meq/g	n.a.
Density of Polystyrene	1.055 g/cm <sup>3</sup>	n.a.
Specific Surface Area	1.4 × 10 <sup>4</sup> cm <sup>2</sup> /g	n.a.
<b>MISCELLANEOUS INFORMATION</b>		
Material Lot Number	1605928	n.a.

1. Relative to a solution in methanol of the dye used to prepare this product.
2. Technical data for the unstained microspheres.



Rachel Smith, Quality Assurance Manager  
30-Jun-2014

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.