

Certificate of Analysis

Product Name:

Silver nanospheres – 80 nm avg. part. size, 1 mg/mL in water, BPEI functionalized

Product Number: 807567
Batch Number: MKCD1109
Brand: ALDRICH
Formula Weight: 18.02 g/mol
Storage Temperature: Store at 2-8 DEGREE C
Quality Release Date: 17 MAY 2017
Recommended Retest Date: APR 2018

Test	Specification	Result
Appearance (Color)	Light Yellow to Yellow and Light Brown to Brown	Light Brown
Appearance (Form)	Liquid	Liquid
Wavelength		461 nm
Specification: Report Only		
ICP Major Analysis	Confirmed	Confirmed
Confirms Silver Component		
Diameter		81.9 nm
Specification: Report Only		
Surface Area (TEM)		6.9 m2/g
Specification: Report Only		
Concentration		1.05 mg/ml
Mass (Ag)		
Specification: Report Only		
Particles/ml	Confirmed	Confirmed
3.6E+ 11		
Diameter		101.0 nm
Hydrodynamic		
Specification: Report Only		
Zeta Potential		48.0 mV
Specification: Report Only		
pH		6.6
Specification: Report Only		
Silver (Ag)	Confirmed	Confirmed
99.99%		

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

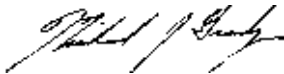
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Batch Number: MKCD1109

Test	Specification	Result
Particle Surface bPEI	Confirmed	Confirmed
Recommended Retest Period 1 Year	-----	-----



Michael Grady, Manager
Quality Control
Milwaukee, WI US

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