

Certificate of Analysis

Product Name:

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

Product Number: 807362
Batch Number: MKBX2881
Brand: ALDRICH
Formula Weight: 18,02 g/mol
Storage Temperature: Store at 2-8 DEGREE C
Quality Release Date: 13 MAY 2016
Date Retested: 26 NOV 2018
Recommended Retest Date: NOV 2019

Test	Specification	Result
Appearance (Color)	Light Yellow to Yellow and Light Brown to Brown	Brown
Appearance (Form)	Liquid	Liquid
Wavelength		467 nm
Report Only		
ICP Major Analysis	Confirmed	Confirmed
Confirms Silver Component		
Diameter		83.2 nm
Report Only		
Surface Area		6.7 m2/g
Report Only (TEM)		
Concentration		1.07 mg/ml
Mass (Ag)(Report Only)		
Particles/ml	Confirmed	Confirmed
3.4E+ 11		
Diameter		107.6 nm
Hydrodynamic (Report Only)		
Zeta Potential		-34.8 mV
(Report Only)		
pH		7.0
Report Only		
Silver (Ag)	Confirmed	Confirmed
99.99%		
Particle Surface	Confirmed	Confirmed
Lipoic Acid		

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.

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

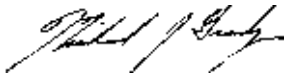
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

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Test	Specification	Result
Recommended Retest Period 12 month	-----	-----



Michael Grady, Manager
Quality Control
Milwaukee, WI US

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