

Certificate of Analysis

Product Name:

Silver nanospheres - 100 nm avg. part. size, 0.02 mg/mL in water, lipoic acid functionalized

Product Number: 796247
Batch Number: MKBV5101V
Brand: ALDRICH
Storage Temperature: Store at 2 - 8 °C
Quality Release Date: 18 MAY 2015
Date Retested: 23 OCT 2018
Recommended Retest Date: OCT 2019

Test	Specification	Result
Appearance (Color)	Light Yellow to Yellow and Light Brown to Brown	Light Yellow
Appearance (Form)	Liquid	Liquid
Wavelength		486 nm
Report Result		
ICP Major Analysis	Confirmed	Confirmed
Confirms Silver Component		
Diameter		115.1 nm
Hydrodynamic (Report Result)		
Surface Area		5.4 m2/g
Report Result (TEM)		
Concentration		0.021 mg/ml
Mass (Ag)(Report Result)		
Diameter	Confirmed	Confirmed
100 nm		
Miscellaneous Supplier Data		-35.5
Zeta Potential (mV)(Report Result)		
pH		6.6
Report Result		
Silver (Ag)	Confirmed	Confirmed
99.99%		
Miscellaneous Supplier Data	Confirmed	Confirmed
Particle Surface: Lipoic Acid		
Recommended Retest Period	-----	-----
12 months		

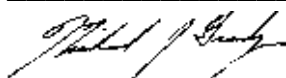
Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser 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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Michael Grady, Manager
Quality Control
Milwaukee, WI US

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