

## Certificate of Analysis

Product Name:

Silver nanospheres – 40 nm avg. part. size, 0.02 mg/mL in water, PEG functionalized

**Product Number:** 796301  
**Batch Number:** MKBV0402V  
**Brand:** ALDRICH  
**Storage Temperature:** Store at 2 - 8 °C  
**Quality Release Date:** 17 MAR 2015  
**Date Retested:** 16 JUN 2020  
**Recommended Retest Date:** JUN 2021

Test	Specification	Result
Appearance (Color)	Light Yellow to Yellow and Light Brown to Brown	Yellow
Appearance (Form)	Liquid	Liquid
Wavelength		409 nm
Report Result		
ICP Major Analysis	Confirmed	Confirmed
Confirms Silver Component		
Diameter		65.3 nm
Hydrodynamic (Report Result)		
Surface Area		14.2 m <sup>2</sup> /g
Report Result (TEM)		
Concentration		0.021 mg/ml
Mass (Ag)(Report Result)		
Particles/ml	Confirmed	Conforms
6.6E+ 10		
Diameter	Confirmed	Confirmed
40 nm		
Miscellaneous Supplier Data		-21.3
Zeta Potential (mV)(Report Result)		
pH		5.7
Report Result		
Silver (Ag)	Confirmed	Confirmed
99.99%		
Miscellaneous Supplier Data	Confirmed	Confirmed
Particle Surface: PEG		

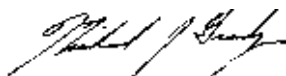
Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical 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: MKBV0402V

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



Michael Grady, Manager  
Quality Control  
Milwaukee, WI US

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