

## Certificate of Analysis

Product Name:

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

**Product Number:** 796204  
**Batch Number:** MKBV0404V  
**Brand:** ALDRICH  
**Storage Temperature:** Store at 2 - 8 °C  
**Quality Release Date:** 18 MAR 2015  
**Date Retested:** 14 APR 2021  
**Recommended Retest Date:** APR 2022

Test	Specification	Result
Appearance (Color)	Light Yellow to Yellow and Light Brown to Brown	Yellow
Appearance (Form)	Liquid	Liquid
Wavelength		415 nm
Report Result		
ICP Major Analysis	Confirmed	Confirmed
Confirms Silver Component		
Diameter		44.8 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
Diameter	Confirmed	Confirmed
40 nm		
Miscellaneous Supplier Data		2.9
Zeta Potential (mV)(Report Result)		
pH		6.1
Report Result		
Silver (Ag)	Confirmed	Confirmed
99.99%		
Miscellaneous Supplier Data	Confirmed	Confirmed
Particle Surface: Lipoic Acid		
Recommended Retest Period	-----	-----
12 months		

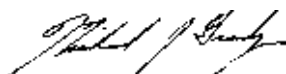
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Quality Control  
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