

**CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc.  
Certificate Number. 951001163

Catalogue Number J67252  
Lot Number Q20M023  
Description Silver nanoparticles, 80nm, 0.02 mg/ml, supplied in 2mM sodium citrate, 457nm absorption  
CAS Number 7440-22-4  
Quality Test/Release Date 21/Apr/2026  
Suggested retest date 21/Oct/2026  
Country of Origin Canada

Result Name	Units	Specifications	Test Value
Buffer		2 mM sodium citrate	2 mM sodium citrate
Comment	nm	Mean hydrodynamic diameter (nm): 81-93	86.16
Comment		Particles/mL: ~7.1E+9	Particles/mL: ~7.1E+9
Concentration		Optical density (OD): 1.6	1.6
Core size	nm	80nm (±3nm)	80 +/- 3
Form		Liquid	Liquid
lambda-max (UV-Vis)	nm	460-480nm	466
Polydispersity Index		0.10-0.20	0.133



Derek Roy  
Quality Manager, LCD

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.