

## 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	011407
Lot Number	Z05L011
Description	Silver(I) oxide, 99+% (metals basis)
CAS Number	20667-12-3
Quality Test/Release Date	05/Dec/2025
Suggested retest date	05/Dec/2030
Country of Origin	United Kingdom

Result Name	Units	Specifications	Test Value
Assay (unspecified)	ppm	Carbonate: Reported	1015
Assay (unspecified)	ppm	Chloride: Reported	<5.0
Assay (unspecified)	%	Silver Oxide: Reported	99.99
Assay (unspecified)	%	Silver: Reported	92.96
Appearance (Color)		Gray to black	Gray-black
Density	g/cm3	Scott density: Reported	0.7
Density	g/cm3	Tap density: Reported	1.4
Form		Powder	Powder
Loss on Drying	%	Reported	0.02
Total Metal Impurities	%	1% max. (list all metal impurities)	0.00816
NITRATE	ppm	Reported	<10
Particle Size	%	Sieve Size 45 micron: Reported	100
Sulfate content	ppm	Reported	<5

Additional Information Al 0.3 , As <0.2 , Au 0.2 , B 0.3 , Ba <0.1 , Be <0.1 , Bi <0.1 , Ca 2.5 , Cd <0.1 , Ce <0.1 , Co 2.2 , Cr 0.3 , Cu 0.7 , Fe 6.8 , Ge <0.1 , Hg <20.0 , Ir <0.2 , K 53.7 , La <0.1 , Li <0.1 , Mg 2.2 , Mn 0.1 , Mo <0.1 , Na 1.6 , Ni 13.2 , P <0.1 , Pb 11.6 , Pd <0.1 , Pt <0.1 , Re <0.1 , Rh <0.1 , Ru <0.1 , S 0.4 , Sb <0.1 , Sc <0.1 , Se <0.2 , Si 0.3 , Sm <0.1 , Sn <0.1 , Te <0.1 , Ti <0.1 , Tl 0.1 , V <0.1 , Zn 0.3 , Zr <0.1 , Values given in ppm unless otherwise stated.



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.