

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	J62166
Lot Number	X28L004
Description	L-Glutathione, reduced, 98+%
CAS Number	70-18-8
Quality Test/Release Date	28/Oct/2025
Suggested retest date	28/Oct/2028
Country of Origin	China
Declaration of Origin	Other
BSE/TSE	Fermentation

Result Name	Units	Specifications	Test Value
Assay	%	≥98.0%	99
Appearance (Color)		White	White
Form		Crystalline powder	Crystalline powder
Heavy Metals	ppm	≤10 ppm	<10
Residue on ignition	%	≤0.1%	0.04
Impurity content	ppm	Ammonium(NH ₄): ≤200 ppm	<200
Impurity content	ppm	Iron (Fe): ≤10 ppm	<5
Impurity content	ppm	Sulfate (SO ₄): ≤300 ppm	<300
Infrared spectrum		Conforms	Conforms
Loss on Drying	%	≤0.5%	0.2
Optical Rotation	°	-15.5 to -17.5°	-16.2
Solution Test		Clear and colorless	Clear and colorless



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.