

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	J63745
Lot Number	P28M002
Description	L-Cysteine, Cell Culture Reagent
CAS Number	52-90-4
Quality Test/Release Date	31/Mar/2026
Suggested retest date	31/Mar/2027
Country of Origin	Japan
Declaration of Origin	Other
BSE/TSE	Fermentation:Plant based

Result Name	Units	Specifications	Test Value
Assay (unspecified)	EU/g	Endotoxin: ≤24.00 EU/g	24.0
Assay (unspecified)	CFU/g	Microorganisms: ≤100 CFU/g	≤100
Assay	%	≥98%	98.0
Heavy Metals	ppm	≤10 ppm	<10
Residue on ignition	%	≤0.1%	0.02
Impurity content	%	Ammonium (NH ₄): ≤0.02%	<0.02
Impurity content	%	Chloride (Cl): ≤0.041%	<0.040
Impurity content	ppm	Iron (Fe): ≤10 ppm	<10
Impurity content	%	Sulfate (SO ₄): ≤0.028%	<0.028
Loss on Drying	%	≤0.5%	0.00
Optical Rotation	°	+8.0 to +10.0	+9.0
pH		4.5 - 5.5	5.2



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.