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CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

Catalogue Number	15762		
Lot Number	A0449171		
Description	L(-)-Proline,99+%		
CAS Number	147-85-3		
Quality Test/Release Date	09/Jan/2025		
Suggested retest date	09/Jan/2027		
Country of Origin	CHINA		
Declaration of Origin	Animal		
	Based on the manufacturing process and the raw materials used, we hereby declare		
BSE/TSE	that this product is free from any risk of contamination with Bovine Spongiform		
	Encephalopathy (BSE) or Transmissible Spongiform Encephalopathy (TSE).		

Units	Specifications	Test Value
	White	White
	Crystalline powder or crystals	Crystalline powder
	Conforms	Conforms
%	99.0 to 101.0 (on dried substance)	100.0 (on dried substance)
%	=<0.5 (105°C, 3 hrs)	0.04 (105°C, 3 hrs)
ppm	=<10	=<3
%	=<0.1	0.05
%	=<0.5 (Individual impurities)	=<0.5 (Individual impurities)
%	=<2.0 (Total impurities)	=<2.0 (Total impurities)
nm	-84.3° to -86.3° (20°C, 589 (c=4, H2O)	-84.8° (20°C, 589) (c=4, H2O)
ppm	=<200	=<200
ppm	=<300	=<200
ppm	=<1	=<1
ppm	=<200	=<200
ppm	=<10	=<10
	% % ppm % % % nm ppm ppm ppm ppm	White Crystalline powder or crystals Conforms 99.0 to 101.0 (on dried substance) % 99.0 to 101.0 (on dried substance) % =<0.5 (105°C, 3 hrs)

Geert Torfs Supervisor, QC

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.