

**CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by LRQA. Certificate Number. 10551915

Catalogue Number	A10199
Lot Number	A0471348
Description	L-Proline, 99%
CAS Number	147-85-3
Quality Test/Release Date	16/May/2025
Suggested retest date	16/May/2028
Country of Origin	China
Declaration of Origin	Plant

Result Name	Units	Specifications	Test Value
Assay (Non-aqueous acid-base Titration)	%	≥98.5 to ≤101.5%	99.8 (dry wt. basis)
Appearance (Color)		White	White
Form		Crystals or powder or crystalline powder	Crystalline powder
Identification (FTIR)		Conforms	Conforms
Optical Rotation	°	-84 ± 3° (c= 1 in water)	-84.6



Paul Coleman  
Site Quality Manager

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.