

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek Global
Certificate Number: CERT-0120633

Catalogue Number	BP372
Lot Number	252453
Description	L-ARGININE MONOHYDROCHLORIDE
CAS Number	1119-34-2
Quality Test/Release Date	29/Oct/2025
Suggested retest date	28/Sep/2028
Country of Origin	Japan
Declaration of Origin	Organic - non animal
BSE/TSE	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White crystals
AMMONIUM	%	<= 0.02	<0.02
ARSENIC (As)	ppm	<= 1	<1
ASSAY	%	Inclusive Between 98.5 - 101.0	99.2
CHLORIDE	%	Inclusive Between 16.58 - 17.00	16.81
HEAVY METALS (as Pb)	ppm	<= 10	<10
IDENTIFICATION	PASS/FAIL	IN PASS TEST	PASS TEST
IGNITION RESIDUE	%	<= 0.1	0.005
LOSS ON DRYING @ 105 C	%	<= 0.2	0.11
OTHER AMINO ACIDS	PASS/FAIL	IN CHROMATOGRAPHICALLY <1%;CHROMATOGRAPHICALLY NOT DETECTABLE	CHROMATOGRAPHICALLY <1%
SPECIFIC ROTATION @ 20 DEG	DEGREES (+ OR -)	Inclusive Between 22 - 23	22.5
STATE OF SOLUTION (%T)	%	>= 98.0	99.5



Harout Sahagian
QC 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 use or further manufacturing. 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.