

**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 J62943  
Lot Number S27L004  
Description L-Valine, Cell Culture Reagent  
CAS Number 72-18-4  
Quality Test/Release Date 27/Jun/2025  
Suggested retest date 27/Jun/2030  
Country of Origin United States

Result Name	Units	Specifications	Test Value
Assay (unspecified)	EU/g	Endotoxin: ≤ 6.0	<6.0
Assay (unspecified)		Total microorganism: ≤ 100 CFU/gm; Mold: ≤ 10; Colliform: Negative	Conforms
Assay (unspecified)	%	98.5 to 101.0 %	100.8
Heavy Metals	ppm	≤ 10 ppm as lead	=<10
Residue on ignition	%	≤ 0.10 %	0.00
Loss on Drying	%	≤ 0.2 %	0.04
pH		6.2 to 6.5	6.2

*John Astarita*

John Astarita  
Director, Quality

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.