

## 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

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Catalogue Number	A14894
Lot Number	X28L010
Description	Vitamin B12, 98+% (dry wt basis)
CAS Number	68-19-9
Quality Test/Release Date	28/Oct/2025
Suggested retest date	28/Oct/2030
Country of Origin	China

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Result Name	Units	Specifications	Test Value
Assay (unspecified)	%	≥98.0% (on dried material)	98.5
Appearance (Color)		Dark red to red-purple	Dark red
Form		Crystals or crystalline powder	Crystals
Loss on Drying	%	≤5.0%	3.2

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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.