

## 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

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Catalogue Number	23012
Lot Number	345530
Description	DL-Cysteine,97%
CAS Number	3374-22-9
Quality Test/Release Date	25/Nov/2025
Suggested retest date	25/Nov/2030
Country of Origin	UNITED KINGDOM
Declaration of Origin	Animal
BSE/TSE	Based on the manufacturing process and the raw materials used, we hereby declare that this product is free from any risk of contamination with Bovine Spongiform Encephalopathy (BSE) or Transmissible Spongiform Encephalopathy (TSE).

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Result Name	Units	Specifications	Test Value
Appearance (Color)		White to off-white	White
Appearance (Form)		Powder	Powder
Infrared spectrum		Conforms	Conforms
Elemental Analysis	%	28.55 to 30.93 C	29.24 C
Elemental Analysis	%	11.12 to 12.02 N	11.61 N

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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.