

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 J63071
Lot Number R20F053
Description L-Cystine disodium salt monohydrate, 98+%
CAS Number 199329-53-8
Quality Test/Release Date 20/May/2019
Suggested retest date 20/May/2029
Country of Origin United States

Result Name	Units	Specifications	Test Value
Appearance (Color)		White to pale yellow	Passes test
Form		Powder	Powder
Water Content (Karl Fischer Titration)	%	≤8.0%	3.7
pH		9.5-11.0 (1.0% solution in water) @ 25°C	10.6
Solution Test		Clear and complete (1.0% solution in Water)	Passes test
Assay (Titration)	%	≥98.0% (Titration)	102.7

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.