

**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	047141
Lot Number	Z15L002
Description	Iron(II,III) oxide, nanopowder, 97%
CAS Number	1317-61-9
Quality Test/Release Date	16/Dec/2025
Suggested retest date	16/Dec/2035
Country of Origin	United States
Declaration of Origin	Other
BSE/TSE	Inorganic

Result Name	Units	Specifications	Test Value
Assay (unspecified)	%	96.1% min	97.15
Appearance (Color)		Black	Black
Form		Powder	Powder
pH		6-8	6.05
Particle Size	nm	50-100nm	50-100
Surface Area	m <sup>2</sup> /g	8.5-11.5 m <sup>2</sup> /g	10



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.