

## 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

Catalogue Number	44633
Lot Number	A0475610
Description	Citric acid, trisodium salt dihydrate,ACS reagent
CAS Number	6132-04-3
Quality Test/Release Date	01/Sep/2025
Suggested retest date	01/Sep/2028
Country of Origin	AUSTRIA
Declaration of Origin	plant
BSE/TSE	Citric acid is made by fermentation of vegetable raw materials

Result Name	Units	Specifications	Test Value
Appearance (Color)		White	White
Appearance (Form)		Crystalline powder or crystals	Crystalline powder
Titration with HClO4	%	>=99.0	99.7
pH		7.0 to 9.0 (5 % in water at 25.0°C)	8.2 (5 % in water at 25.0°C)
Insoluble matter	%	=<0.005	=<0.005
Chloride (Cl)	%	=<0.003	=<0.003
Sulfate (SO4)	%	=<0.005	=<0.005
Ammonia (NH3)	%	=<0.003	=<0.003
Calcium (Ca)	%	=<0.005	=<0.005
Iron (Fe)	ppm	=<5	=<5
Heavy metals (ICP-OES)	ppm	=<5	=<5

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.