

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 22034
 Lot Number A0482969
 Description Citric acid,99.5%,for analysis,anhydrous
 CAS Number 77-92-9
 Quality Test/Release Date 06/May/2026
 Suggested retest date 06/May/2031
 Country of Origin AUSTRIA
 Declaration of Origin plant
 BSE/TSE The product is made by fermentation of sugar beet molasses

Result Name	Units	Specifications	Test Value
Appearance (Color)		White	White
Appearance (Form)		Crystalline powder or crystals	Crystalline powder
Infrared spectrum		Conforms	Conforms
Titration with NaOH	%	>=99.5	100.1
Loss on drying	%	==<0.5	0.2
Heavy metals (as Pb)	ppm	==<5	==<2
Sulfated ash	%	==<0.05	==<0.01
Chloride (Cl)	ppm	==<10	==<5
Sulfate (SO4)	ppm	==<100	==<2
Oxalate (C2O4)	ppm	==<500	==<500
Arsenic (As)	ppm	==<1	==<1
Calcium (Ca)	ppm	==<200	==<1
Iron (Fe)	ppm	==<5	==<2
Substance darkened by H2SO4		Passes test	Passes test



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.