

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 J64322
 Lot Number P09M003
 Description Citric acid, Electrophoresis Grade, 99.5+%
 CAS Number 77-92-9
 Quality Test/Release Date 09/Mar/2026
 Suggested retest date 09/Mar/2031
 Country of Origin United States

Result Name	Units	Specifications	Test Value
Assay (unspecified)	%	≥ 99.5%	100.01
Clarity		Clarity and color of the solution: Passes test	Passes test
Appearance (Color)		White	White
Elemental Analysis	%	Chloride: ≤ 0.001%	<0.001
Elemental Analysis	ppm	Iron: ≤ 3 ppm	1
Elemental Analysis	%	Oxalate: ≤ 0.05%	<0.05
Elemental Analysis	%	Phosphate: ≤ 0.001%	<0.001
Elemental Analysis	%	Sulfate: ≤ 0.002%	<0.002
Form		Powder or crystals or crystalline powder	Crystalline powder
Heavy Metals	ppm	≤ 2 ppm as lead	1
Residue on ignition	%	≤ 0.02%	0.005



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.