

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	32986
Lot Number	A0464381
Description	Citric acid,for molecular biology,anhydrous, Rnase and Protease free
CAS Number	77-92-9
Quality Test/Release Date	04/Jul/2025
Suggested retest date	04/Jul/2027
Country of Origin	ISRAEL
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 solid	Crystalline solid
Infrared spectrum		Conforms	Conforms
Titration with NaOH	%	>=99	>=99
Water	%	=<0.5 (K.F.)	0.1 (K.F.)
Insoluble matter	%	=<0.005	=<0.005
Carboniz. sub. by hot H2SO4		(as per ACS) passes test	(as per ACS) passes test
Dnase,Rnase,Protease activity		none detected	none detected
Chloride (Cl)	ppm	=<10	=<10
Oxalate (C2O4)	ppm	=<500	100

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.