



CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek Global Certificate

Number. CERT-0120633

Catalogue Number A314
Lot Number 252764

Description TARTARIC ACID, GRANULAR, A.C.S.

CAS Number 87-69-4
Quality Test/Release Date 20/Jun/2025
Suggested retest date 26/Oct/2028
Country of Origin Italy

Declaration of Origin Organic - non animal

No animal products are used as starting raw material ingredients, or used in

BSE/TSE processing, including lubricants, processing aids, or any other material that might

migrate to the finished product.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White or colorless granules not
			powder.
ASSAY	%	>= 99.0	99.9
CHLORIDE	%	<= 0.001	<0.001
HEAVY METALS (by ICP-OES)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IGNITION RESIDUE	%	<= 0.02	0.01
INSOLUBLE MATTER	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
OXALATE		= PASS TEST	PASS TEST
PHOSPHATE (PO4)	%	<= 0.001	<0.001
SULFUR COMPOUNDS	%	<= 0.002	<0.002

Harout Sahagian QC Manager

Cub Salym

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 use or further manufacturing. 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.