

## 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	012364
Lot Number	S27L032
Description	Calcium nitrate tetrahydrate, ACS, 99.0-103.0%
CAS Number	13477-34-4
Quality Test/Release Date	02/Jul/2025
Suggested retest date	02/Jul/2030
Country of Origin	United States

Result Name	Units	Specifications	Test Value
Assay (unspecified)	%	99.0-103.0% Ca(NO <sub>3</sub> ) <sub>2</sub> •4H <sub>2</sub> O	99.45
Heavy Metals	ppm	(ICP-OES) 5ppm	<5
Impurity content	%	Sr 0.05%	0.0065
Impurity content	%	SO <sub>4</sub> 0.002%	<0.002
Impurity content	%	Na 0.01%	0.0011
Impurity content	%	NO <sub>2</sub> 0.001%	<0.001
Impurity content	%	Mg 0.05%	0.026
Impurity content	%	K 0.005%	0.0008
Impurity content	ppm	Fe 5ppm	<5
Impurity content	%	Cl 0.005%	<0.005
Impurity content	%	Ba 0.005%	<0.005
Insoluble material	%	0.005%	0.003
pH		of a 5% solution 5.0-7.0 at 25°	5.99



John Astarita  
 Director, Quality

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.