

## 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	036236
Lot Number	P09M013
Description	Barium carbonate, ACS, 99.0-101.0%
CAS Number	513-77-9
Quality Test/Release Date	09/Mar/2026
Suggested retest date	09/Mar/2031
Country of Origin	India
Declaration of Origin	Synthetic
BSE/TSE	Not directly derived from or manufactured with any animal byproducts in any way (including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Assay (unspecified)	%	99.0-101.0% BaCO <sub>3</sub>	99.6
Free base (titration)	meq/g	(Water soluble) 0.002meq/g	<0.002
Impurity content	%	Ca 0.05%	<0.01
Impurity content	%	Cl 0.002%	<0.001
Impurity content	%	Fe 0.002%	<0.0016
Impurity content		Insoluble in dilute hydrochloric acid 0.015%	Passes test
Impurity content	%	K 0.005%	<0.001
Impurity content	%	Na 0.02%	<0.01
Impurity content	%	Oxidizing substances (as NO <sub>3</sub> ) 0.005%	<0.005
Impurity content	%	S 0.001%	<0.001
Impurity content	%	Sr 0.7%	<0.2
Trace Metals	%	(as Pb) 0.001%	<0.001



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.