

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	012310
Lot Number	Z12L082
Description	Barium chloride dihydrate, ACS
CAS Number	10326-27-9
Quality Test/Release Date	16/Dec/2025
Suggested retest date	16/Dec/2029
Country of Origin	United States

Result Name	Units	Specifications	Test Value
Assay	%	≥99.0% BaCl ₂ ·2H ₂ O	100.14
Appearance (Color)		White	White
Form		Crystals or crystalline powder	Crystals
Heavy Metals	ppm	(ICP-OES): ≤5ppm	<5
Impurity content	%	Sr: ≤0.1%	<0.05
Impurity content	%	Oxidizing substances (as NO ₃): ≤0.005%	<0.005
Impurity content	%	Na: ≤0.005%	<0.005
Impurity content	%	K: ≤0.0025%	<0.0025
Impurity content	ppm	Fe: ≤2 ppm	<1
Impurity content	%	Ca: ≤0.05%	<0.005
Insoluble material	%	≤0.005%	0.004
Loss on Drying	%	at 150°C: 14.0-16.0%	14.46
pH		of a 5% solution: 5.2-8.2 at 25°	6.00



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.