



# NEWAY SINOPHC TECH. LIMITED

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## Certificate of Analysis (COA)

### Product Information

Item	Details
Product Name	Barium Carbonate
Product Number	BC-20260216
Batch Number	BC-SH2026021601
Brand	SIGALD
CAS Number	513-77-9
MDL Number	MFCD00003445
Formula	BaCO <sub>3</sub>
Formula Weight	197.34 g/mol
Quality Release Date	16 FEB 2026

### Test Results

Test	Specification (Industrial Standard)	Result	Unit	Test Method
Appearance (Color)	White	White	-	Visual Inspection
Appearance (Form)	Crystalline powder	Crystalline powder	-	Visual Inspection
Purity (BaCO <sub>3</sub> )	≥ 99.0%	99.2%	%	Acid-Base Titration
Moisture Content	≤ 0.2%	0.07%	%	Karl Fischer Titration
Chloride (Cl <sup>-</sup> ) Content	≤ 0.05%	0.01%	%	Silver Nitrate Titration
Sulfate (SO <sub>4</sub> <sup>2-</sup> ) Content	≤ 0.05%	0.009%	%	Turbidimetric Method
Iron (Fe)	≤ 5 ppm	0.3 ppm	ppm	Spectrophotometry
Heavy Metals (Pb)	≤ 3 ppm	0.5 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Calcium (Ca) Content	≤ 0.1%	0.02%	%	Atomic Absorption Spectrometry (AAS)
Strontium (Sr) Content	≤ 0.1%	0.03%	%	Atomic Absorption Spectrometry (AAS)
Insoluble Matter in Dilute Acid	≤ 0.1%	0.02%	%	Gravimetric Method
Particle Size (D50)	2-5 μm	3.5 μm	μm	Laser Particle Size Analyzer

### Certification

This batch of Barium Carbonate has been tested in accordance with the established industrial standards and meets all specified requirements for purity, physical properties and impurity limits. It is qualified for use in ceramic, glass, electronic and chemical synthesis applications.

**Issue Date: 16 FEB 2026**