



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
 Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Certificate of Analysis (COA)

Product Name: Calcium Carbonate (Food Grade)

Product Information

Item	Details
Product Number	CC-20260229
Batch Number	CC-SH2026022901
Brand	SIGALD
CAS Number	471-34-1
MDL Number	MFCD00010900
Chemical Formula	CaCO ₃
Molecular Weight	100.09
Quality Release Date	29 FEB 2026

Test Results (Compliant with National Food Additive Standards & FCC/USP)

Test	Specification	Result	Unit	Test Method
Appearance	White fine powder, free-flowing, no caking	White fine powder	-	Visual Inspection
Odor	Odorless	Odorless	-	Sensory Evaluation
Taste	Tasteless, no off-taste	Conforms to specification	-	Sensory Evaluation
Assay (Calcium Carbonate, on dry basis)	≥98.5%	99.2%	%	Acid-Base Titrimetric Method
Loss on Drying (105°C, 2h)	≤0.5%	0.2%	%	Gravimetric Method
Loss on Ignition (900°C, 1h)	43.0-44.5%	43.8%	%	Gravimetric Method
pH Value (10% aq. suspension, 25°C)	8.0~10.0	9.1	-	Digital pH Meter
Chloride (as Cl ⁻)	≤0.01%	0.005%	%	Volumetric Method
Sulfate (as SO ₄ ²⁻)	≤0.02%	0.01%	%	Turbidimetric Method
Heavy Metals (as Pb)	≤1 ppm	<0.01 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤0.5 ppm	<0.01 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Iron (Fe)	≤5 ppm	2 ppm	ppm	Colorimetric Method
Magnesium (Mg) & Alkali Metals (as MgO)	≤1.0%	0.4%	%	AAS
Barium (Ba)	≤0.03%	0.01%	%	AAS
Total Bacterial Count	≤100 CFU/g	12 CFU/g	CFU/g	Plate Count Method
Yeast & Mold	≤10 CFU/g	<5 CFU/g	CFU/g	Dichloran Rose Bengal Agar
E. coli	Negative in 1g	Negative	-	Microbiological Detection
Salmonella	Negative in 25g	Negative	-	Microbiological Detection

Certification

This batch of **Food Grade Calcium Carbonate (CAS 471-34-1)** has been tested in accordance with the national food additive standards for calcium supplement, anticaking agent, bulking agent and acidity regulator, and FCC/USP quality specifications. It meets all specified requirements and is qualified for food production and application. **Date:** 29 FEB 2026