

Certificate of Analysis (COA)

Product Name: Sodium Gluconate (Food Grade)

Product Information

Item	Details
Product Number	G-20260228
Batch Number	G-SH2026022801
Brand	SIGALD
CAS Number	526-95-4
MDL Number	MFCD00064244
Chemical Formula	C ₆ H ₁₁ O ₇ Na
Molecular Weight	218.14
Quality Release Date	28 FEB 2026
Physical State	White crystalline powder, odorless

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

Test	Specification	Result	Unit	Test Method
Appearance	White crystalline powder, free-flowing, no caking	White crystalline powder	-	Visual Inspection
Odor	Odorless	Odorless	-	Sensory Evaluation
Taste	Mild salty-sweet, no off-taste	Conforms to specification	-	Sensory Evaluation
Assay (Sodium Gluconate)	≥98.0%	99.2%	%	Titration Method
Reducing Sugar (as glucose)	≤0.5%	0.12%	%	Fehling's Method
Glucose	≤0.2%	0.05%	%	High Performance Liquid Chromatography (HPLC)
Loss on Drying	≤0.5%	0.18%	%	Gravimetric Method (105°C, 2h)
Residue on Ignition	30.0-32.0%	31.1%	%	Gravimetric Method (600°C+50°C)
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)
Cadmium (Cd)	≤0.05 ppm	<0.01 ppm	ppm	AAS
Mercury (Hg)	≤0.01 ppm	<0.01 ppm	ppm	Cold Vapor Atomic Absorption
pH Value (10% aqueous solution)	7.0-8.5	7.8	-	Digital pH Meter
Chloride (Cl ⁻)	≤0.05%	0.01%	%	Volumetric Method
Sulfate (SO ₄ ²⁻)	≤0.05%	0.01%	%	Turbidimetric Method
Total Bacterial Count	≤100 CFU/g	7 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Salmonella	Negative in 25g	Negative	-	Microbiological Detection

Certification

This batch of **Food Grade Sodium Gluconate (CAS 526-95-4)** has been tested in accordance with the national food additive standards for sequestrants, stabilizers, buffering agents and chelating agents, and FCC/USP quality specifications. It meets all specified requirements and is qualified for food production and application. **Date:** 28 FEB 2026