



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Issue Date: February 29, 2026 **Quality Release Date:** February 29, 2026

Product Information

Product Name	Chitosan (Feed Grade, Powder)
Product Number	CHI-F20260229
Batch Number	CHI-SH2026022901
Brand	SIGALD
CAS Number	9012-76-4
EINECS Number	232-394-8
Formula	$(C_6H_{11}NO_4)_n$ (Natural linear polysaccharide)
Formula Weight	Variable (100,000-500,000 Da)

Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color)	White to off-white	Off-white	-	Visual Inspection
Appearance (Form)	Free-flowing powder, no caking	Free-flowing powder	-	Visual Inspection
Deacetylation Degree	≥ 90.0%	92.5%	%	Potentiometric Titration
Viscosity (1% in 1% Acetic Acid, 25°C)	50-200	120	mPa·s	Rotational Viscometry
Loss on Drying	≤ 10.0%	5.8%	%	105°C, 2h Gravimetry
Ash Content	≤ 1.0%	0.4%	%	550°C, 3h Ignition
Heavy Metals (Pb)	≤ 5 ppm	1.3 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	< 0.3 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤ 0.5 ppm	< 0.1 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Mercury (Hg)	≤ 0.1 ppm	< 0.05 ppm	ppm	Cold Vapor AAS
Total Bacterial Count	≤ 10 ⁸ CFU/g	42 CFU/g	CFU/g	Plate Count Method
Yeast & Mold	≤ 10 ² CFU/g	< 10 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Salmonella	Negative	Negative	-	ISO 6579-1
Solubility	Soluble in dilute organic acid	Conforms	-	Visual & Gravimetric Method

Certification

This batch of Chitosan (Feed Grade) has been tested in accordance with the specified industrial standards for natural polysaccharide feed additives and meets all quality requirements. It is qualified for release and use in animal nutrition.