



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Product Name: Choline Chloride (Feed Grade)

Product Information

Item	Details
Product Number	CC-FEED-20260218
Batch Number	CC-F2026021801
Brand	SIGALD
CAS Number	67-48-1
MDL Number	MFCD00011610
Formula	C ₅ H ₁₄ ClNO
Formula Weight	139.62 g/mol
Quality Release Date	18 FEB 2026

Test Results (Compliant with Feed Additive Standards)

Test	Specification (Feed Grade)	Result	Unit	Test Method
Appearance	White to off-white crystalline powder, free-flowing	White crystalline powder	-	Visual Inspection
Assay (Choline Chloride)	≥98.0%	98.7%	%	Potentiometric Titration
pH Value (10% aqueous, 25°C)	5.0-7.0	6.1	-	Digital pH Meter
Moisture Content	≤0.5%	0.2%	%	Karl Fischer Titration
Residue on Ignition	≤0.1%	0.03%	%	Gravimetric Method (600±50°C)
Heavy Metals (as Pb)	≤5 ppm	0.9 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤2 ppm	0.2 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤1 ppm	0.07 ppm	ppm	AAS
Mercury (Hg)	≤0.1 ppm	<0.01 ppm	ppm	Cold Vapor Atomic Absorption
Chloride Content (as Cl ⁻)	25.0-26.0%	25.6%	%	Volumetric Method (AgNO ₃)
Total Bacterial Count	≤100 CFU/g	19 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Salmonella	Negative in 25g	Negative	-	GB 13078.1

Certification

This batch of **Feed Grade Choline Chloride** has been tested in accordance with **GB 13078.1-2017 (Feed Hygiene Standard)** and **GB/T 17771-2018 (Feed Additive Choline Chloride)**. It meets all specified requirements for feed additive use and is qualified for release.

Date: 18 FEB 2026