



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Product Name: Trehalose (Food Grade)

Product Information

Item	Details
Product Number	T-20260228
Batch Number	T-SH2026022801
Brand	SIGALD
CAS Number	99-20-7
MDL Number	MFCD00006522
Formula	C ₁₂ H ₂₂ O ₁₁
Molecular Weight	342.30 Da
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 sweet, no off-taste	Conforms to specification	-	Sensory Evaluation
Assay (Trehalose)	≥ 99.0%	99.85%	%	High Performance Liquid Chromatography (HPLC)
Loss on Drying	≤ 0.5%	0.19%	%	Gravimetric Method (105°C, 2h)
Residue on Ignition	≤ 0.1%	<0.05%	%	Gravimetric Method (400°C±50°C)
Reducing Sugar (as glucose)	≤ 0.1%	<0.03%	%	Fehling's Method
Glucose	≤ 0.5%	<0.08%	%	HPLC
Fructose	≤ 0.1%	<0.02%	%	HPLC
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 (5% aqueous solution)	5.0-7.0	6.2	-	Digital pH Meter
Total Bacterial Count	≤ 100 CFU/g	8 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 Trehalose (CAS 99-20-7)** has been tested in accordance with the national food additive standards for sweeteners, humectants, cryoprotectants and stabilizers, and FCC/USP quality specifications. It meets all specified requirements and is qualified for food production and application.

Date: 28 FEB 2026