



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	Trehalose Dihydrate (Feed Grade)
Product Number	TRE-F20260229
Batch Number	TRE-SH2026022901
Brand	SIGALD
CAS Number	99-20-7
MDL Number	MFCD00149408
Formula	$C_{12}H_{22}O_{11} \cdot 2H_2O$
Formula Weight	378.33 g/mol

Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color)	White	Conforms	-	Visual Inspection
Appearance (Form)	Crystalline powder	Crystalline powder	-	Visual Inspection
Assay (on dry basis)	≥ 99.0%	99.5%	%	HPLC
Reducing Sugar (as Glucose)	≤ 0.1%	0.03%	%	HPLC
pH Value (5% in H ₂ O, 25°C)	5.0 - 6.5	5.7	-	Digital pH Meter
Loss on Drying	8.0% - 10.0%	9.2%	%	105°C, 4h Gravimetry
Residue on Ignition	≤ 0.1%	0.02%	%	550°C Ignition
Heavy Metals (Pb)	≤ 10 ppm	1.8 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 2 ppm	< 0.5 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Chloride (Cl ⁻)	≤ 0.02%	< 0.01%	%	Turbidimetry
Sulfate (SO ₄ ²⁻)	≤ 0.02%	< 0.01%	%	Turbidimetry
Total Bacterial Count	≤ 10 ⁴ CFU/g	210 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	-	Microbiological Detection

Certification

This batch of product has been tested in accordance with industrial standards for feed grade trehalose and meets all specified requirements. It is qualified for use.