



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Product Name: Caramel (Feed Grade)

Product Information

Item	Details
Product Number	CARA-FEED-20260220
Batch Number	CARA-F2026022001
Brand	SIGALD
CAS Number	8028-89-5
MDL Number	N/A (Natural composite food/feed grade colorant)
Formula	Amorphous mixture of caramelized saccharides (glucose, fructose, maltose polymers)
Formula Weight	Variable (500-5000 Da)
Quality Release Date	20 FEB 2026

Test Results (Compliant with Feed Additive Standards)

Test	Specification (Feed Grade)	Result	Unit	Test Method
Appearance (Color)	Dark brown to black	Dark brown	-	Visual Inspection
Appearance (Form)	Viscous liquid, no visible impurities	Homogeneous viscous liquid	-	Visual Inspection
Solid Content	≥65.0%	68.2%	%	Gravimetric Method (105°C, 3h)
pH Value (25°C, 10% solution)	3.0-5.5	4.2	-	Digital pH Meter
Color Intensity (EBC unit, 0.1% solution)	≥5000	5680	EBC	Spectrophotometry (420nm)
Sulfite (as SO ₂)	≤50 ppm	18 ppm	ppm	Ion Chromatography
Heavy Metals (as Pb)	≤5 ppm	0.8 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤2 ppm	0.2 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤1 ppm	0.06 ppm	ppm	AAS
Mercury (Hg)	≤0.1 ppm	<0.01 ppm	ppm	Cold Vapor Atomic Absorption
Total Bacterial Count	≤100 CFU/mL	25 CFU/mL	CFU/mL	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Salmonella	Negative in 25mL	Negative	-	GB 13078.1

Certification

This batch of **Feed Grade Caramel** has been tested in accordance with **GB 13078.1-2017 (Feed Hygiene Standard)** and national industrial standards for feed grade colorants. It meets all specified requirements for feed additive use and is qualified for release.

Date: 20 FEB 2026