



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (Hpch - Hydroxy Propyl Chitosan)

Issue Date: 28 FEB 2026 Quality Release Date: 28 FEB 2026

Product Name

Hpch (Hydroxy Propyl Chitosan) 羟丙基壳聚糖

Product Information

Product Number HPC-20260228

Batch Number HPC-SH2026022801

Brand SIGALD

CAS Number 9012-76-4 (chitosan base; no single CAS for derivative)

MDL Number N/A (no specific MDL for hydroxy propyl chitosan)

Formula Modified chitosan polymer with hydroxypropyl groups

Formula Weight Variable (50,000 - 500,000 Da)

Form Off-white to white free-flowing powder, no caking

Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color/Form)	Off-white to white powder, free-flowing	Conforms	-	Visual Inspection (25°C)
Degree of Substitution (Hydroxypropyl)	0.3 ~ 1.2	0.75	-	Potentiometric Titration
Moisture Content	≤ 10.0%	6.2%	%	105°C Oven Drying Method
Ash Content	≤ 1.0%	0.4%	%	550°C Ignition Method
pH Value (1% aqueous dispersion, 25°C)	5.0 ~ 7.5	6.3	-	Digital pH Meter
Viscosity (1% aq. dispersion, 25°C)	50 ~ 1000 mPa·s	320 mPa·s	mPa·s	Brookfield Viscometer
Solubility	Dispersible in water, forming clear colloid	Conforms	-	Visual & Turbidity Method
Heavy Metals (Pb)	≤ 5 ppm	0.9 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.2 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Total Bacterial Count	≤ 1000 CFU/g	156 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Staphylococcus aureus	Negative	Negative	-	Microbiological Detection

Certification

This batch of product has been tested in accordance with industrial standards for Hydroxy Propyl Chitosan and meets all specified requirements. It is qualified for use in cosmetic, pharmaceutical, food additive, and industrial coating fields.