



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis

Product Name:

Polyepoxysuccinic Acid (PESA)

Product Information

- Product Number: PESA-CAS1528987-202605
- Batch Number: PESA-2026052001
- Brand: SIGALD
- CAS Number: 1528-98-7
- MDL Number: MFCD00191835
- Formula: $(C_4H_4O_5)_n$ (n = 50-200)
- Formula Weight: Variable (approx. 5000-20000 g/mol)
- Quality Release Date: 20 MAY 2025

Test Item	Specification (Industrial Standard)	Result	Test Method
Appearance	Colorless to pale yellow transparent liquid	Colorless transparent liquid	Visual Inspection
Solid Content	30.0-40.0%	35.6%	Gravimetric Method (105°C, 4h)
pH Value (1% Aqueous Solution, 25°C)	4.0-6.0	5.2	Digital pH Meter
Scale Inhibition Efficiency (CaCO ₃ , 25°C, 24h)	≥ 90%	94.8%	Static Scale Inhibition Test
Heavy Metals (Pb)	≤ 0.0005%	0.0001%	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤ 0.0001%	0.00003%	Atomic Fluorescence Spectrometry (AFS)
Iron (Fe)	≤ 0.001%	0.0004%	Atomic Absorption Spectrometry (AAS)
Free Monomer (as Succinic Acid)	≤ 1.0%	0.3%	High Performance Liquid Chromatography (HPLC)
Phosphorus Content (as PO ₄ ³⁻)	≤ 0.05%	0.01%	Molybdenum Blue Spectrophotometry
Supplier Information	Confirmed	Confirmed	-
Registered Trademark	Confirmed	Confirmed	-

This batch of product meets the specified industrial standards and is qualified for use.

Issue Date: 20 MAY 2025