



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-254925
Lot Number: SAMPLE
Product Name: α -Cyano-4-hydroxycinnamic acid diethylamine salt
CAS Number: 355011-52-8
Molecular Formula: $C_{10}H_7NO_3 \cdot C_4H_{11}N$
Molecular Weight: 262.30

Test	Specification	Result
Appearance	White to faint yellow powder or crystals	Off - white powder
Identification (1H -NMR)	Consistent with structure	Complies
Identification (UV)	Consistent with requirements	Complies
Purity (HPLC)	$\geq 99.0\%$	99.8%
Solution (Color)	Faintly yellow to greenish-yellow solution in water at 10 mg/ml	Light greenish-yellow solution in water at 10 mg/ml
Solution (Turbidity)	Clear (< 3.5 NTU) solution in water at 10 mg/ml	Complies
Trace metal analysis	Consistent with requirements (ICP)	Complies
Barium	≤ 5 mg/kg (ICP)	< 5 mg/kg
Cadmium	≤ 5 mg/kg (ICP)	< 5 mg/kg
Calcium	≤ 5 mg/kg (ICP)	< 5 mg/kg
Carbon	64.11%	63.68%
Chromium	≤ 5 mg/kg (ICP)	< 5 mg/kg
Cobalt	≤ 5 mg/kg (ICP)	< 5 mg/kg
Copper	≤ 5 mg/kg (ICP)	< 5 mg/kg
Hydrogen	6.92%	7.42%
Iron	≤ 5 mg/kg (ICP)	< 5 mg/kg
Lead (ICP)	≤ 5 mg/kg	< 5 mg/kg
Magnesium	≤ 5 mg/kg (ICP)	< 5 mg/kg

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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Manganese	≤ 5 mg/kg (ICP)	< 5 mg/kg
Nickel	≤ 5 mg/kg (ICP)	< 5 mg/kg
Nitrogen	10.68%	Complies
Potassium	≤ 5 mg/kg (ICP)	< 5 mg/kg
Sodium	≤ 5 mg/kg (ICP)	< 5 mg/kg
Zinc	≤ 5 mg/kg (ICP)	< 5 mg/kg

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