



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-506377
Lot Number: SAMPLE
Product Name: Pantothenic Acid-13C3, 15N Hemicalcium Salt
CAS Number: 356786-94-2
Molecular Formula: $C_{12}({}^{13}C)_6H_{20}Ca({}^{15}N)_2O_{10}$
Molecular Weight: 484.37
Native Source: Synthetic

Test	Specification	Result
Appearance	Off-white to pale beige solid	Complies
Identification (NMR)	Consistent with structure	Complies
Identification (Mass Spectrometry)	Consistent with structure	Complies
Isotopic Purity	> 95%	98.20%
Purity (TLC)		95%
Specific Rotation		+23.3° (c = 0.2, Water)
Calcium		6.92% by Ion Chromatography
Carbon Content	44.61%	42.28%
Hydrogen Content	6.66%	6.31%
Nitrogen Content	5.78%	5.53%
Water Content (KF)		2.9%

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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