



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-477943  
Lot Number: SAMPLE  
Product Name: Palmitoyl-L-carnitine-d3 Hydrochloride  
CAS Number: 1334532-26-1  
Molecular Formula:  $C_{23}H_{43}D_3NO_4 \cdot Cl$   
Molecular Weight: 439.09  
Native Source: Synthetic

Test	Specification	Result
Appearance	White to off-white solid	White solid
Identification (NMR)	Consistent with structure	Complies
Identification (Mass Spectrometry)	Consistent with structure	Complies
Isotopic Purity	> 95%	99.70%
TLC		Complies
Specific Rotation		-13.4° (c = 0.8, Methanol)
Carbon Content	61.5 - 63.9%	62.50%
Chloride		7.58% by Ion Chromatography
Hydrogen Content	10.1 - 11.3%	10.68%
Nitrogen Content	2.4 - 3.8%	2.93%

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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