



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-472532
Lot Number: SAMPLE
Product Name: 2,6-Difluoro-L-phenylalanine
CAS Number: 33787-05-2
Molecular Formula: $C_9H_9F_2NO_2 \cdot HCl$
Molecular Weight: 237.67

Test	Specification	Result
Appearance		Off-white powder
Assay (Elemental Analysis)		93.0% (C Th 45.49%, C fd 42.30%)
Enantiomeric Content (GC)		< 0.1% D-enantiomer
Identification (1H -NMR)		Consistent with structure
Identification (TLC)		Consistent with authentic material
Purity (HPLC)		98.8 (TFA)
Purity (TLC)		$\geq 99\%$
Solubility		Clear, light beige solution (50 mg/ml in H ₂ O)
Optical Rotation		$\alpha_{24365} = +50.6^\circ$ (1% in water)
Optical Rotation ($\alpha_{24/D}$)		$+10.7^\circ$ (1% in water)
Other Amino Acids		< 0.3% (by GC)
Carbon Content	42.7%	42.3%
Chloride	14.92% (by titration)	16.44%
Hydrogen Content	4.4%	4.3%
Nitrogen Content	5.5%	Complies
Water Content (KF)		2.2%

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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