



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-488758
Lot Number: SAMPLE
Product Name: Lamivudine- ^{13}C 1,d2
CAS Number: 134678-17-4 (unlabeled)
Molecular Formula: $\text{C}_7(^{13}\text{C})\text{H}_5\text{D}_2\text{N}_2\text{O}_2\text{S}$
Molecular Weight: 232.26

Test	Specification	Result
Appearance		Off-white solid
Identification (^1H -NMR)		Consistent with structure
Identification (^{13}C -NMR)		Consistent with structure
Identification (Mass Spectrometry)		Consistent with structure
Isotopic Purity		99.2%
Purity (TLC)		96%
Atmosphere		Inert gas
Melting Point		> 118 °C (dec.)
Solubility		DMSO (slightly), Methanol (very slightly)
Specific Rotation		-127.5° (c = 0.1, Methanol)
Carbon Content	41.37%	38.79%
Hydrogen Content	4.78%	4.72%
Nitrogen Content	18.09%	16.56%

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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