



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-482777
Lot Number: SAMPLE
Product Name: 5-Methyl cytosine-13C, 15N2 hydrochloride
CAS Number: 1246815-59-7
Molecular Formula: $C_5(^{13}C)H_5N(^{15}N)_2O \cdot HCl$
Molecular Weight: 164.57
Native Source: Synthetic

Test	Specification	Result
Appearance		White solid
Identification (1H-NMR)		Consistent with structure
Identification (13C-NMR)		Consistent with structure
Identification (15N-NMR)		Consistent with structure
Identification (Mass Spectrometry)		Consistent with structure
Isotopic Purity		98.4%
Purity (HPLC)		99.5%
TLC		Complies
Atmosphere		Air
Melting Point		> 290 °C (dec.)
Solubility		DMSO (slightly), Methanol (slightly)
Carbon Content	36.58%	36.75%
Chloride		21.2%
Hydrogen Content	4.90%	4.71%
Nitrogen Content	25.61%	25.31%

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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